



UNIVERSIDADE DA CORUÑA



Escola Politécnica Superior

Trabajo Fin de Grado

CURSO 2019/ 2010

PSV 8500 TPM

CLEAN DESIGN; FIFI III; DYNPOS AUTR; SF; E0; SPS; SUPPLY VESSEL; OIL
RECOVERY; ICE C

CUADERNO 4: CÁLCULOS DE ARQUITECTURA NAVAL

Grado en Ingeniería Naval y Oceánica

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FECHA: SEPTIEMBRE 2020

ESCUELA POLITÉCNICA SUPERIOR DE FERROL

GRADO EN INGENIERÍA NAVAL Y OCEÁNICA

TRABAJO FIN DE GRADO Nº 1920/ 09

Requerimientos previstos de actividad (RPA) del buque proyecto:

Título del proyecto: PSV 8500 TPM

Clasificación, cota y reglamentos de aplicación: DNV, SPS, SUPPLY VESSEL, SF, EO, ICE C, DYNPOS AUTR, CLEAN DESIGN, FIFI III

Velocidad y autonomía: 15 nudos en condiciones de servicio, 5000 millas

Sistemas y equipos de carga/ descarga: los habituales en este tipo de buques

Propulsión: diésel – eléctrica, propulsores Voith Schneider

Tripulación y pasaje: 38 personas más 12 (personal especial), según SPS

Ferrol, 31 de octubre de 2019

ALUMNO/A: PABLO FERNÁNDEZ CARBAJALES

El buque a proyectar se trata de un buque diseñado para prestar apoyo y suministro a las plataformas petrolíferas del Mar del Norte, tanto carga líquida como carga seca. Además, presenta la posibilidad de extinguir fuegos exteriores al buque (FIFI III) y recoger vertidos de hidrocarburos en alta mar (OIL RECOVERY).

The vessel to be projected is a vessel designed to provide support and supply to the oil rigs in the North Sea, both liquid and dry cargo. In addition, it has the possibility of extinguishing fires outside the ship (FIFI III) and collecting hydrocarbon spills in the seas (OIL RECOVERY).

O buque que se proxecta é un buque diseñado para proporcionar apoio e subministración ás plataformas petrolíferas do mar do Norte, tanto carga líquida como seca. Ademais, ten a posibilidade de extinguir incendios fora do buque (FIFI III) e recoller derrames de hidrocarburos en alta mar (OIL RECOVERY).

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1. Presentación

El buque proyecto se trata de un PSV (Platform Supply Vessel) destinado a prestar apoyo y suministro a las plataformas petrolíferas del Mar del Norte, con una capacidad de 8500 TPM, condición fijada en la RPA, además de una velocidad de servicio de 15 nudos. En cuanto a la operatividad del mismo puede suministrar la siguiente carga:

- Diesel oil
- Agua dulce para consumo
- Cemento seco
- Salmuera
- Otros elementos en la cubierta principal (carga seca) como brocas de perforación, cables etc.

También está diseñado para recoger los siguientes productos de la plataforma:

- Barro de perforación

Se ha dotado también la posibilidad de que el buque tenga la capacidad de recoger vertidos de hidrocarburos derramados en alta mar, lo que se conoce como Oil Recovery.

Las cotas de clase que aplican en el diseño del buque proyecto son las siguientes:

- DNV: buque diseñado bajo dicha sociedad de clasificación, se seguirán las normas y recomendaciones que sean de aplicación.
- SPS (special purpose ship)
- Supply vessel: buque diseñado para prestar apoyo.
- SF: buque diseñado teniendo en cuenta factores restrictivos en estabilidad en averías
- EO: maquinaria desatendida
- ICE C: buque diseñado para navegar en zonas con presencia de una capa fina de hielo
- DYNPOS AUTR: buque diseñado con la capacidad de mantener la posición sin moverse.
- CLEAN DESIGN: buque que dota de un diseño limpio en cuanto a contaminación
- FIFI III: buque diseñado con la posibilidad de luchar contra fuegos exteriores.
- OIL RECOVERY: buque dotado de la capacidad de recoger y almacenar vertidos de hidrocarburos en alta mar

Las cotas de clase comentadas se irán desarrollando a lo largo de los 13 cuadernos de los que consta el TFG.

2. Introducción

En el presente cuaderno se dimensionará el compartimentado del buque, tanto transversal como longitudinalmente. El objetivo de dicho compartimentado es conocer aquellas zonas que irán destinadas a tanques de carga y/o consumo, así como los locales generales del buque proyecto.

Además, se calcularán las curvas hidrostáticas (nos permiten conocer el desplazamiento del buque en función del calado del mismo) y las curvas KN (el parámetro KN, como se explicará más adelante, no depende de la condición de carga del buque, sino de las formas, el trimado y el ángulo de escora).

Por último, se calcularán las capacidades de todos los tanques que lleve el buque proyecto y se irán “colocando” mediante el programa Maxsurf, teniendo en cuenta las formas del casco.

3. Cálculo de las curvas hidrostáticas

Para calcular las curvas hidrostáticas, se utiliza el programa Maxsurf, que realiza las curvas de forma automática a partir de las formas obtenidas para el casco del presente buque proyecto.

El cálculo de las hidrostáticas se va a realizar entre un calado mínimo y un calado máximo asociados al desplazamiento del buque en rosca y al desplazamiento correspondiente a la máxima capacidad del peso muerto posible, es decir, se hará entre 5250 t que es el desplazamiento del buque en rosca y 14000 t, que se corresponde con el desplazamiento a máxima carga. El valor a máxima carga se ha incrementado un poco.

Para esto se tomarán los trimados correspondientes al 1% de la eslora del buque, valor que se ha tomado en el cuaderno 5 como el valor máximo admitido para el trimado del buque, por tanto los trimados a evaluar serán los siguientes:

Trimados hacia popa: + 0,954 m

Trimados hacia proa: -0,954 m

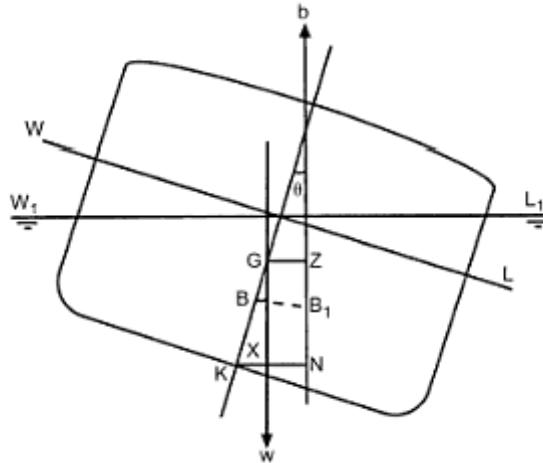
Trimado nulo: 0 m

Los resultados obtenidos se mostrarán en el Anexo I del presente cuaderno.

4. Cálculo de las curvas KN

Los brazos de adrizamiento se pueden calcular utilizando la siguiente expresión:

$$GZ = KN - KG \cdot \sin(\vartheta)$$



Donde:

- Θ es el ángulo de escora.
- KG es la coordenada vertical del centro de gravedad medida desde la línea base. El valor de KN a diferencia del valor de KG no depende de la condición de carga en la que se encuentra el buque, depende de las formas del buque y del trimado, así como del ángulo de escora. Los valores de KN se determinan para los mismos trimados utilizados en las hidrostáticas calculadas en el apartado anterior, ya que al cambiar el trimado cambia la inercia de flotación, por lo que cambia la estabilidad del buque aunque el desplazamiento siga siendo el mismo. Los ángulos de escora que se van a calcular van a ser:

$$\Theta_n = n \times 10^\circ \text{ con } n=0,1,2,3,4,5$$

Para determinar las curvas KN se definieron los ángulos de escora como se muestra anteriormente, de 10° a 50° en intervalos de 10° , para los trimados definidos a la hora de calcular las curvas hidrostáticas y para un rango de desplazamientos comprendidos entre el desplazamiento asociado al peso en rosca y al desplazamiento asociado a máxima carga. Los resultados obtenidos se mostrarán en el Anexo II del presente cuaderno.

5. Zona estanca y puntos de inundación progresiva

Se define zona estanca como la zona del buque por debajo de la cubierta de francobordo (cubierta continua más baja expuesta a la intemperie y a la mar) siendo esta en el buque proyecto la cubierta principal, por debajo de esta el buque debe ser “hermético” y no permitir un embarque de agua. Los puntos de inundación progresiva son aquellos que están situados en la superficie externa del buque, que perteneciendo a la obra muerta del buque y encontrándose por encima de la cubierta de francobordo, pueden dar lugar a un embarque de agua de forma gradual, dando lugar a escoras del buque y una inundación progresiva del mismo. Dichos puntos se corresponden con puertas, portillos o cualquier abertura que se presente en la superestructura y a través de los cuales pueda penetrar el agua dentro del compartimentado del buque. Para determinar dichos puntos se usará la distribución general del buque proyecto, sacada a partir del buque base Stril Mar.

- Ventilación de la habitación
- Ventilación de la cámara de máquinas
- Puertas laterales

Estos puntos de inundación progresiva se han introducido en el programa Maxsurf para llevar a cabo los cálculos hidrostáticos realizados en apartados anteriores y se detallan en un plano en el que se muestra una vista longitudinal y de perfil del buque, introducido en el Anexo III del presente cuaderno, así como el plano de la zona estanca. En dicho plano se puede observar una zona estanca en proa por encima de la cubierta principal, dicha zona se corresponde con la flotabilidad de reserva exigida en el Cuaderno 9: Francobordo y arqueo, al ser el buque un buque de tipo B. Dicha flotabilidad de reserva cuenta con 60 m² aproximadamente, valor obtenido midiendo en el plano, cumpliendo con el área mínima de 47,65 m² calculada en dicho cuaderno 9. En dicho plano también se puede comprobar que el buque cumple con la altura mínima de flotabilidad en proa, obteniendo un valor de 5,28 m midiendo sobre el plano, superando los 4,39 m exigidos en el cálculo realizado en el Cuaderno 9.

Así mismo, en los planos de la disposición general del cuaderno 7 se pueden observar los elementos de cierre estancos (puertas y escotillas) para dotar de estanqueidad a los compartimentos ubicados “dentro” de la zona estanca.

6. Compartimentado

Cualquier buque de carga debe estar dividido en compartimentos independientes entre sí, delimitados por mamparos. De este modo se evita que en caso de una posible fuga de agua o carga se propague al resto del buque, además de dificultar el avance de un posible incendio. El compartimentado queda definido mediante cubiertas y mamparos, tanto longitudinales como transversales. Los mamparos han de coincidir con las cuadernas del buque, para un buen reparto de la carga y esfuerzos a la estructura del buque, quedando así un buen diseño de la misma.

6.1 Compartimentado longitudinal:

En cuanto al compartimentado longitudinal se ha de definir lo siguiente:

- 6.1.1 Pique de popa.
- 6.1.2 Pique de proa/mamparo de colisión.
- 6.1.3 Cámara para el propulsor de proa.
- 6.1.4 Cámara para la propulsión VOITH.
- 6.1.5 Cámara de bombas.
- 6.1.6 Separación Zona de carga/ Sala de máquinas.

Antes de detallar estos 6 apartados de compartimentado longitudinal, se debe definir la separación de cuadernas, ya que como se ha comentado anteriormente los mamparos han de ir situados sobre dichas cuadernas.

Para ello se usa la siguiente expresión obtenida del reglamento DNV, concretamente en el capítulo 7 (Parte 5), que nos proporciona la siguiente separación de cuadernas:

$$Sc = 0,48 + 0,002 * Lpp$$

$$Sc = 0,48 + 0,002 * 95'4 = 0,67 m$$

Como la separación máxima establecida por el DNV es de 0,61 m, para este proyecto se establece una separación de cuadernas de 0,6 m en toda la eslora del buque, ésta es la separación del buque base, considerándose más que aceptable para el desarrollo del buque proyecto.

6.1.1 Pique de popa

El pique de popa se dispondrá siguiendo la distribución del buque Stril Mar y aplicando los factores de escala correspondientes, quedando así situado en la cuaderna -3.

6.1.2 Pique de proa/mamparo de colisión

Según el Capítulo II-1 Parte B. Regla 11.8 del SOLAS se deberá instalar un mamparo de colisión hasta la cubierta de francobordo. Este mamparo deberá situarse a popa de la perpendicular de proa, una distancia no inferior al 5% de la eslora del SOLAS, que es la eslora del buque medida entre perpendiculares trazadas en los extremos de la línea de máxima carga de compartimentado. Para calcular esta eslora se ha tomado un calado de 8,5 m, representando en él la flotación y trazando la perpendicular de proa en la intersección de la flotación con la roda

$$Eslora \text{ del SOLAS} = 95,4 \text{ m}$$

$$95,4 \times 0,05 = 4,77 \text{ m}$$

Por tanto, la distancia a la que se ha de colocar el mamparo de colisión es a:

$$L \text{ mamparo colisión} = 95,4 - 4,77 = 90,63 \text{ m}$$

Como no coincide con una cuaderna, se situará el mamparo en la cuaderna 151, a 90,6 m de la perpendicular de popa, cumpliendo con la distancia que marca el SOLAS.

6.1.3 Cámara para el propulsor de proa

Se van a instalar dos hélices transversales, como en el buque base Stril Mar.

El dimensionamiento del local de thrusters se hará siguiendo la disposición del buque base "Stril Mar". El local de thrusters del buque Stril Mar tiene una longitud de 12 m. Aplicando los factores de escala correspondientes para el buque proyecto se obtiene un local de 14 m. Ahora se muestran los límites popel y proel de dicho local:

El límite popel del Stril Mar está a 66,6 m de la perpendicular de popa.

El límite proel del Stril Mar está a 78,6 m de la perpendicular de proa.

Límites buque proyecto:

$$Límite \text{ popel} = 66,6 \times \frac{95,4}{82,6} = 77 \text{ m}$$

$$Límite \text{ proel} = 78,6 \times \frac{95,4}{82,6} = 90,8 \text{ m}$$

Atendiendo a la separación entre cuadernas de construcción, definiéndose en un apartado anterior una separación de 0,6 m, ni el límite popel ni el proel coinciden con una cuaderna de construcción, por tanto, el límite popel se situará en la cuaderna de construcción 128, a 76,8 m de la perpendicular de popa, y el límite proel se situará en la cuaderna 151, a 90,6 m de la perpendicular de popa, coincidiendo con el mamparo de colisión.

$$L \text{ c. thrusters} = 90,6 - 76,8 = 13,8 \text{ m}$$

Se dejará un espacio entre los dos propulsores de 1,5 m, que será suficiente para poder realizar las labores de mantenimiento de una forma adecuada. El tamaño del local de propulsores de proa se considera suficiente, de todas formas, en el cuaderno 6 se comprobará si es suficiente para albergar las hélices transversales y la hélice retráctil.

6.1.4 Cámara para la propulsión VOITH

El límite popel de esta cámara de propulsión es el pique de popa, situado en la cuaderna -3 y el límite proel se considera el tanque antirolling. La longitud de la cámara de bombas es la siguiente:

$$\text{Límite popel} = -3 \times 0,6 \text{ m} = -1,8 \text{ m}$$

$$\text{Límite proel} = 10 \times 0,6 \text{ m} = 6 \text{ m}$$

$$\text{Longitud local propulsores VOITH} = 7,8 \text{ m}$$

Con una longitud de casi 8 m se considera suficiente, al igual que en el local de los propulsores de proa se comprobará en el cuaderno 6 al tener definidos todos los propulsores del buque de una forma detallada.

6.1.5 Cámara de bombas

Para dimensionar la cámara de bombas se sigue la distribución del buque Stril Mar. El límite popel de la cámara de bombas del Stril Mar está situado a 25,8 m de la perpendicular de popa, mientras que el límite proel está situado a 50,4 m de dicha perpendicular, resultando una longitud total de 24,6 m, una vez tenemos una aproximación de la longitud de este local se procede a dimensionar la cámara de bombas del buque proyecto. La cámara de bombas tendrá las siguientes dimensiones:

$$\text{Límite popel} = 25,8 \times \frac{95,4}{82,6} = 29,8 \text{ m}$$

$$\text{Límite proel} = 50,5 \times \frac{95,4}{82,6} = 58,8 \text{ m}$$

El límite popel no coincide con una cuaderna de construcción, por lo que se dispondrá a 30 m de la perpendicular de popa, quedando así definido en la cuaderna 50. Por otra parte, el límite popel sí que coincide con una cuaderna de construcción, en concreto con la cuaderna 98, por lo tanto, la cámara de bombas del buque proyecto tendrá una longitud de:

$$\text{Longitud cámara de bombas} = 58,2 \text{ m} - 30 \text{ m} = 28,2 \text{ m}$$

6.1.6 Separación carga/ sala de máquinas

Conforme se especifica en el Capítulo II-1 Regla 11.8 del SOLAS, en los buques de carga se instalarán mamparos estancos hasta la cubierta de francobordo, que separen la cámara de máquinas por proa y popa de los espacios de carga. En los buques tipo supply se dispone la cámara de máquinas a proa de la zona de carga. Debido a esta localización, hay que tener en cuenta que la cámara de máquinas disminuye según avanza hacia proa.

Para determinar la cámara de máquinas se va a fijar como requerimiento que pueda albergar a los grupos diesel-generadores escogidos (se ha hecho una primera estimación con un modelo de Wartsila, de ahí los 6,5 m) y que se pueda colocar igualmente el local de los propulsores de proa, dimensionado en el punto 3.

Entre el límite proel de los grupos diesel-generadores y el límite popel de la cámara de propulsores de proa se dispondrá un vano de 5 m y entre el límite popel de los grupos diesel-generadores y el límite proel de la zona de carga se dispondrá un vano de 4,5 m, espacio suficiente para que se puedan llevar a cabo las tareas de mantenimiento de forma adecuada. Por tanto, la longitud de la cámara de máquinas será de:

$$\text{Longitud cámara de máquinas} = 6,5 + 5 + 6,5 = 18 \text{ m}$$

El límite popel de la cámara de máquinas coincide con el límite proel de la zona de carga, así mismo coincide con el límite proel de la cámara de bombas, situado en la cuaderna 98, a 58,8 m desde la perpendicular de popa.

El límite proel de la cámara de máquinas coincide con el límite popel del local de los propulsores de proa, situado en la cuaderna 128, a 76,8 m desde la perpendicular de popa.

$$\text{Lím. Proel cám.máquinas} - \text{Lím.Popel cám.máquinas} = 76,8 - 58,8 = 18 \text{ m}$$

Comprobando que la longitud de la cámara de máquinas se ajusta al posicionamiento de la cámara de bombas y del local de propulsores de proa, y comprobando también la longitud de dicha cámara en el buque base Stril Mar aplicando los factores de escala necesarios, la cámara de máquinas para este buque proyecto ha quedado bien definida en una primera aproximación. Al igual que ocurría en los locales de los propulsores de popa y los propulsores de proa, se comprobará si la longitud de la cámara de máquinas es adecuada en el cuaderno 10.

6.2 Compartimentado transversal

Para determinar el compartimentado transversal, realizado a lo largo de la manga del buque, se recurrirá a la **RESOLUTION MSC.235(82): ADOPTION OF THE GUIDELINES FOR THE DESIGN AND CONSTRUCTION OF OFFSHORE SUPPLY VESSELS, 2006**.

En dicha resolución se establecen una serie de requerimientos apuntando a la implantación de un doble casco para todo tipo de buque supply, como el de este proyecto, construido a partir del año 2006 cuya eslora esté comprendida entre 24 m y 100 m.

Concretamente en el apartado 3 se expone lo siguiente:

3.2.1 Se supondrá que la avería ocurre en cualquier punto de la eslora del buque entre mamparos transversales estancos.

3.2.2 Se supondrá que la extensión de la avería es la siguiente:

- Extensión transversal: se supondrá que la extensión transversal de la avería es de 760 mm, medida hacia crujía desde el costado, perpendicularmente al eje longitudinal, al nivel de la flotación en carga de verano.

- 3.2.3 Un mamparo transversal estanco que se extienda desde el costado del buque hacia crujía en una distancia igual o superior a 760 mm al nivel de flotación en carga de verano, y que se una a mamparos longitudinales estancos, podrá considerarse mostrarse mamparo transversal estanco a los efectos del cálculo de averías.

3.2.5 Si una avería de dimensiones menores que las indicadas en el punto 3.2.2 origina condiciones peores, tales dimensiones se tomarán como hipótesis.

3.2.6 Cuando un mamparo transversal estanco quede comprendido dentro de la extensión transversal de la supuesta avería y presente una bayoneta de más de 3,05 m en la zona de un doble fondo o de un tanque lateral, el doble fondo o los tanques adyacentes a la parte del mamparo transversal estanco que presenta la bayoneta se considerarán como inundados simultáneamente.

3.2.7 Si la distancia entre mamparos transversales estancos continuos, o la distancia entre los planos transversales que atraviesan las bayonetas más cercanas de los mamparos, es inferior a la extensión longitudinal de la avería calculada con arreglo a lo dispuesto en 3.2.2.1, sólo se considerara eficaz a los efectos de 3.2.1 uno de los mamparos

Aplicando esta resolución para buques supply construidos a partir de 2006, se debe colocar el doble casco a una distancia mínima de 760 mm. Para que sea más fácil acceder a los tanques del doble fondo y poder realizar las tareas de mantenimiento, soldadura etc de una forma más adecuada, se dispondrá el doble casco a una distancia de 1m.

6.3 Compartimentado vertical

Para realizar el compartimentado vertical de una forma correcta, se debe cumplir con la **Regla 12-1 del SOLAS Capítulo II** (Doble fondo en buques de carga no petroleros).

En esta regla se establece lo siguiente:

- Se deberá disponer un doble fondo que se extienda desde el mamparo de colisión hasta el pique de popa, en la medida en que sea compatible con el diseño del buque y la operatividad del mismo. El SOLAS no establece una altura del doble fondo a cumplir. El doble fondo se colocará a 1,5 m, esta medida se ha obtenido aplicando factores de escala con el buque base Stril Mar.

7. Diseño y capacidades de tanques de consumo

A continuación, se dimensionarán los tanques de consumo del buque proyecto. Hay que destacar que debido a que el buque lleva instalado una propulsión diésel – eléctrica, para dimensionar los tanques relacionados con el diésel y con el aceite, es necesario conocer la demanda de energía eléctrica en la situación más desfavorable que presente el buque, esto se estudiará con detalle en el cuaderno 11, por lo que en este cuaderno se hará una aproximación lo más precisa posible. El resto de tanques de consumo del buque como los tanques de agua dulce o de agua técnica no se ven afectados por lo comentado anteriormente. Los tanques que se dimensionarán son los siguientes:

- Combustible diésel – oil:
 - Tanques almacén
 - Tanques de uso diario
 - Tanques de sedimentación
- Aceite lubricante e hidráulico
- Agua dulce
- Agua técnica
- Aguas grises y negras
- Residuos de hidrocarburos (Iodos)

7.1 Cálculo de los tanques de combustible (diésel oil)

7.1.1 Tanques almacén

Como aún no se ha realizado el balance eléctrico para el buque proyecto (cuaderno 11) se estima una potencia de unos 7500 Kw siguiendo el buque base Stril Mar para calcular el consumo de combustible Diesel.-Oil para mi buque.

Atendiendo a la disposición general del buque base “Stril-Mar” este dispone de cuatro diesel generadores, que deben cubrir la demanda de 7500 Kw para la situación más

desfavorable, por tanto, la potencia unitaria mínima de cada grupo diesel-generator debe ser la siguiente:

$$Pot. Unitaria diesel-generator = \frac{7500}{4} = 1875 Kw$$

Conociendo la potencia unitaria mínima de cada diesel generator se escoge el siguiente modelo de grupos generadores Wartsila:

Wärtsilä 6L26		AE/DE IMO Tier 2	AE/DE IMO Tier 2	ME IMO Tier 2	ME IMO Tier 2
Cylinder output	kW/cyl	325	340	325	340
Engine speed	rpm	900	1000	900	1000
Engine output	kW	1950	2040	1950	2040
Mean effective pressure	MPa	2.55	2.4	2.55	2.4
Combustion air system (Note 1)					
Flow of air at 100% load	kg/s	3.7	4.1	3.9	4.1
Temperature at turbocharger intake, max.	°C	45	45	45	45
Air temperature after air cooler, nom. (TE601)	°C	55	55	55	55
Exhaust gas system (Note 2)					
Flow at 100% load	kg/s	3.8	4.2	4.0	4.2
Flow at 85% load	kg/s	3.3	3.7	3.4	3.5
Flow 75% load	kg/s	3.0	3.4	3.0	3.1
Flow 50% load	kg/s	2.1	2.3	1.9	2.2
Temp. after turbo, 100% load (TE517)	°C	343	324	318	324
Temp. after turbo, 85% load (TE517)	°C	343	319	327	328
Temp. after turbo, 75% load (TE517)	°C	349	321	339	341
Temp. after turbo, 50% load (TE517)	°C	367	344	402	388
Backpressure, max.	kPa	3.0	3.0	3.0	3.0
Exhaust gas pipe diameter, min	mm	500	500	500	500
Calculated exhaust diameter for 35 m/s	mm	492	507	493	507
Heat balance (Note 3)					
Jacket water, HT circuit	kW	348	372	336	372
Charge air, LT-circuit	kW	611	723	689	723
Lubricating oil, LT-circuit	kW	288	306	282	306
Radiation	kW	92	97	92	97
Fuel system (Note 4)					
Pressure before injection pumps (PT101)	kPa	700±50	700±50	700±50	700±50
Engine driven pump capacity at 12 cSt (MDF only)	m³/h	2.9	3.2	2.9	3.2
Fuel flow to engine (without engine driven pump), approx.	m³/h	1.6	1.8	1.7	1.8
HFO viscosity before engine	cSt	16...24	16...24	16...24	16...24
HFO temperature before engine, max. (TE 101)	°C	140	140	140	140
MDF viscosity, min	cSt	2.0	2.0	2.0	2.0
MDF temperature before engine, max. (TE 101)	°C	45	45	45	45
Fuel consumption at 100% load	g/kWh	190.6	194.4	191.5	194.4
Fuel consumption at 85% load	g/kWh	189.6	193.4	188.7	191.5
Fuel consumption at 75% load	g/kWh	192.0	195.3	190.6	193.4
Fuel consumption at 50% load	g/kWh	202.3	207.0	196.6	201.3

El régimen de consumo fijado para este buque proyecto es de un 85 %, por tanto, el diésel – generador escogido es el que trabaja a 1000 rpm, el consumo de dicho grupo es de 193,4 g/kw*h.

Se necesita también calcular el periodo de tiempo que el buque va a estar en mar abierto sin entrar en puerto, conociendo la autonomía (en millas) del buque fijada en la RPA y la velocidad de servicio del mismo, fijada también en la RPA del proyecto, se obtiene un periodo de tiempo de:

$$\text{Autonomía} = 5000 \text{ millas} \times \frac{1 \text{ h}}{15 \text{ millas}} \times \frac{1 \text{ día}}{24 \text{ h}} = 14 \text{ días}$$

Con los datos fijados anteriormente se calcula el consumo de combustible Diesel-Oil total para un periodo interrumpido de tiempo de 14 días de navegación:

$$\text{Cap.comb} = 14 \text{ días} \times \frac{24 \text{ h}}{1 \text{ día}} \times \frac{193,4 \text{ g}}{1 \text{ Kw} \cdot \text{h}} \times \frac{1 \text{ tn}}{10^6 \text{ g}} \times \frac{1 \text{ m}^3}{0,84 \text{ tn}} \times 0,85 \times \frac{2040 \text{ Kw}}{\text{generador}} \times 4 \text{ generadores} = 506,4 \text{ m}^3$$

Se aplica un margen de un 15 % para tener en cuenta el consumo de otros equipos como el diésel – generador de emergencia, el de puerto, la caldera, el incinerador etc.

$$\text{Capacidad combustible estimada} = 506,4 \times 1,15 = 582,36 \text{ m}^3$$

El motivo de escoger como combustible Diesel-Oil en el buque proyecto es debido a que dicho buque navegaría por la zona del Mar del Norte prestando apoyo y suministro a las plataformas petrolíferas de dicha zona, en la cual las restricciones por emisiones de azufre fijadas por el MARPOL son muy restrictivas, ya que está considerada como zona de control de emisiones. Las restricciones se especifican en la regla 14 del Anexo VI.

7.1.2 Tanques de uso diario

Esta capacidad es parte de la capacidad total de Diesel-Oil, no obstante es necesario diferenciar los tanques de combustible de uso diario con el resto de tanques de combustible ya que estos van a suministrar el combustible directamente a los motores principales de los grupos diesel generadores. Según el fabricante Wartsila, marca escogida para los grupos diesel generadores, los tanques de uso diario deben ser capaces de abastecer combustible durante 8 horas interrumpidas para un régimen de funcionamiento del 100 % del MCR en todos los diesel generadores.

$$\text{Cap. Com. Uso diario} = 8 \text{ h} \times \frac{188 \text{ g}}{1 \text{ Kw} \cdot \text{h}} \times \frac{1 \text{ tn}}{10^6 \text{ g}} \times \frac{1 \text{ m}^3}{0,89 \text{ tn}} \times \frac{2040 \text{ Kw}}{\text{generador}} \times 4 \text{ generadores} = 13,8 \text{ m}^3$$

Se instalará un sistema de alimentación redundante, es decir, se instalarán dos tanques de combustible de uso diario, cada uno con la capacidad obtenida anteriormente, situados a ambos costados de la cámara de máquinas.

7.1.3 Capacidad tanques de sedimentación

Según el fabricante Wartsila los tanques de sedimentación se dimensionan del mismo modo que los tanques de uso diario, por lo que se instalarán dos tanques de sedimentación uno a cada costado de la cámara de máquinas de igual capacidad mínima que los de uso diario.

7.2 Capacidad tanques aceite lubricante e hidráulico

Si se hace el cálculo de aceite lubricante e hidráulico por consumos según el fabricante Wartsila da una capacidad muy baja, que dista mucho de la capacidad de aceite que llevan buques de este tipo.

Recordando los cálculos realizados en el Cuaderno 1, libro del Proyecto Básico del buque Mercante, se exponía que para los servicios de lubricación es norma disponer de un tanque de servicio cuyo peso pueda estimarse entre un 3-4 % del peso del combustible para la propulsión, disponiendo a mayores un tanque reserva o almacén igual o ligeramente superior al de servicio.

La capacidad para el tanque de servicio de aceite será de:

$$\text{Aceite lub. Tanque servicio} = 0,04 \times 582,36 \text{ m}^3 \times \frac{0,92 \text{ t}}{1 \text{ m}^3} = 20,73 \text{ t}$$

Conociendo la densidad del aceite de lubricación (0,92 t/m³), calculamos la capacidad del tanque de servicio de aceite de lubricación:

$$\text{Cap. Tanque servicio aceite lubricante} = 20,73 \text{ t} \times \frac{1 \text{ m}^3}{0,92 \text{ t}} = 21,5 \text{ m}^3$$

Se dispondrán de dos tanques de aceite lubricante, uno a cada banda de cámara de máquinas.

La capacidad de aceite hidráulico se tomará de 20 m³, valor cercano a los valores de los buques de este tipo, ya que aún no sabemos en este cuaderno que equipos van a ser hidráulicos y por tanto cual va a ser la demanda de aceite hidráulico.

7.3 Capacidad agua dulce

Según la norma ISO 15478-2:2002: Suministro de agua potable en buques y estructuras marinas Parte 1: Planificación y diseño, se determina que para un buque carguero de alta mar (el que más se aproxima al buque proyecto), el consumo de agua potable por tripulante se rige en función de la siguiente tabla:

Tabla A.1
Valores guía para el consumo de agua potable en litros por persona/cama y día

Tipo de buque		Grupo de personas embarcado	Consumo de agua cuando esté equipado con	
			sistema de aseos de gravedad	sistema de aseos de vacío
Buque de alta mar	Carguero	Tripulante/cama	220 l	175 l
	Buque de pasaje	Pasajero/cama	270 l	225 l
	Crucero de lujo	Pasajero/cama	–	275 l
	Trasbordador con cabinas	Pasajero/cama	205 l ^a	160 l ^a
		Pasajero sin cama	100 l	55 l
	Trasbordador sin cabinas	Pasajero sin cama	150 l	105 l
		Tripulante sin cama	100 l	55 l

El buque proyecto llevará un sistema de aseos por vacío, de esta forma no es necesario dotar a las tuberías de una cierta pendiente y llevará unas bombas de vacío. Mirando en la tabla el valor de consumo de agua potable por tripulante a bordo para el tipo de buque carguero, se obtiene un valor de 175 l/persona. Sabiendo que la habilitación se proyectará para 50 personas (RPA) calculamos la capacidad de agua potable para el presente buque aplicando un margen de un 10 %:

$$Cap. Agua potable = 14 \text{ días} \times \frac{175 \text{ l}}{1 \text{ día}} \times \frac{1 \text{ m}^3}{1000 \text{ l}} \times 50 \times 1,1 = 134,75 \text{ m}^3$$

Esta es una capacidad orientativa y no muy relevante ya que en el cuaderno 12 se ha dimensionado y detallado un generador de agua dulce, por tanto, el buque es capacidad de generar agua y no es tan importante la capacidad para almacenar.

7.4 Capacidad agua técnica

La capacidad de agua técnica del buque proyecto se estima de unos 150 m³, como he comentado anteriormente, mediante el generador se puede producir agua técnica para los diferentes equipos y no es necesario “cargarla” en puerto antes de partir.

7.5 Capacidad de aguas grises y negras

Debido a la cota de clase CLEAN DESIGN como se ha especificado con más detalle en el cuaderno 12 es necesario tratar todas las aguas residuales, por tanto, se instalará un tanque de aguas grises de 22 m³ y un tanque de aguas negras de 15 m³ de capacidades mínimas.

7.6 Capacidad tanque de lodos

La capacidad de este tanque se ha definido con detalle en el cuaderno 12, en el que se establece la necesidad de portar un tanque de 5,81 m³ de capacidad mínima.

7.7 Tabla capacidades mínimas consumo

	m ³
Diesel oil almacén	527,16
Diesel oil uso diario	27,6
Diesel oil sedimentación	27,6
Diesel oil (TOTAL)	582,36
Aceite lubricante	43
Aceite hidráulico	20
Agua dulce	134,75
Agua técnica	150
Aguas grises	22
Aguas negras	15
Lodos	5,81

8. Diseño y capacidades de tanques de carga y lastre

En cuanto a la capacidad de los tanques de carga no hay ninguna norma que defina una capacidad mínima, sino que la capacidad de la carga total que el buque puede transportar se definirá en el apartado siguiente. En cuanto a la capacidad de lastre estamos en la misma situación, se ha seguido la distribución de tanques de lastre del buque base Stril lo que se considera suficiente para cumplir con los criterios de estabilidad, en el cuaderno 5 se estudiarán las condiciones de carga detalladamente y se verá que cantidad de lastre habrá que llevar en cada una de ellas. En el apartado posterior se añadirá una tabla en la que se podrán observar las capacidades totales de lastre y carga que el buque proyecto puede transportar.

- **Consideraciones sobre la carga útil específica que puede transportar el buque proyecto:**

1. Salmuera

La salmuera es un compuesto de agua con sales diluidas, estas sales pueden ser de diferentes compuestos. Se emplea en la perforación de pozos de petróleo para proporcionar presión hidrostática para evitar que los fluidos de perforación entren en el pozo, refrigerar la broca para que no alcance temperaturas elevadas, limitar la corrosión

y evitar daños en el pozo. Antiguamente se empleaba para este fin una disolución con aceite, pero actualmente se emplea salmuera ya que es más eficaz, presenta una menor corrosión de los materiales empleados y es menos contaminante. Además, no es necesario desecharla después de un uso, cosa que sí que ocurría con los compuestos de aceite.

La salmuera se emplea para agregar inhibición, lo que hace es reducir la actividad del agua mediante la creación de fuerzas osmóticas para evitar la adsorción de agua por las lutitas, la lutita es una roca de granito que contiene los hidrocarburos que desean extraer.

Dicho compuesto de sal se emplea en la fracturación hidráulica, una técnica muy empleada en la perforación de pozos petrolíferos tanto horizontales como verticales, consiste en mediante un tubo introducir el agua y que supere la presión de la roca, abriendo una fractura controlada.

Además de las ventajas comentadas anteriormente el empleo de este compuesto permite a las plataformas reducir costes, las dos ventajas principales que presenta son que aumenta las tasas de penetración y la vida útil de los motores y brocas.

Hablando de este compuesto, es interesante comentar lo siguiente en relación a los mamparos de dichos tanques:

En el Cuaderno 12, una vez analizado y comentado el sistema de recogida de hidrocarburos en alta mar (Oil Recovery) se han dispuesto los tanques de salmuera para almacenar dichos hidrocarburos y cumplir con el NOFO standard, comentado también en el cuaderno 12. Debido a esto, aunque en el modelado del buque con el programa Maxsurf no se haya tenido en cuenta, los mamparos intermedios de dichos tanques en cada costado serán mamparos corrugados. La decisión de introducir dichos mamparos es debido a lo siguiente:

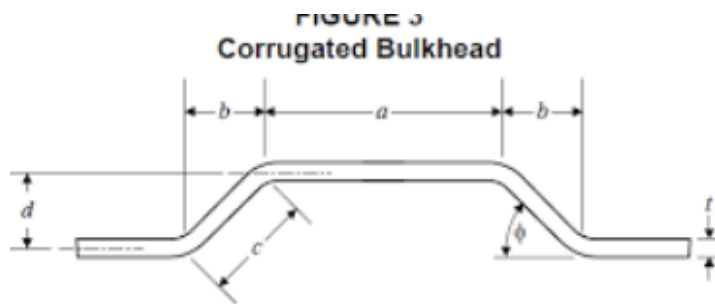
- Como son capaces de almacenar distintos productos en función de las necesidades (salmuera e hidrocarburos), al instalar mamparos corrugados se favorece la limpieza del tanque.

Como se trata de mamparos transversales no afectarán a la resistencia longitudinal del buque, estudiada en el Cuaderno 8 del presente proyecto. Su función será la de soportar el fondo y la cubierta. Debido a esto, se ha decidido introducir un corrugado vertical, que ayudará a soportar cargas en la cubierta principal (cubierta de carga), considerándose importante a la hora de tomar esta decisión.

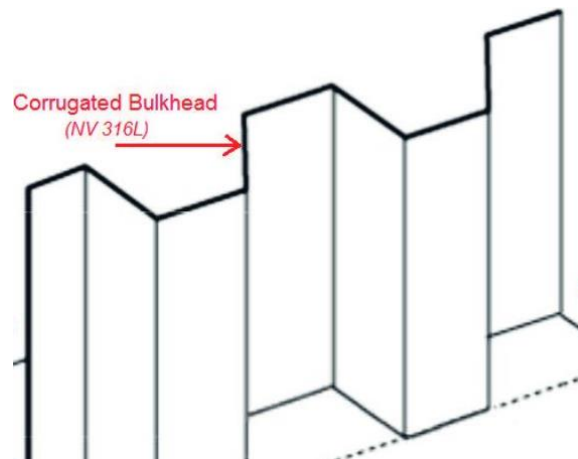
A continuación, se muestra a qué mamparos afecta esta decisión y como son:



Mamparos corrugados intermedios de los tanques de salmuera



Mamparo corrugado



Mamparo transversal con corrugado vertical, como se han decidido instalar los mamparos intermedios

En cuanto al resto de mamparos de dichos tanques se ha optado por colocar los refuerzos “por fuera” de los tanques, para favorecer la limpieza de los mismos.

En una segunda vuelta del diseño sería interesante introducirlos.

2. Barro de perforación

El barro de perforación es un compuesto de densidad elevada (2,8 kg/m³) que se obtiene al perforar los pozos petrolíferos mediante brocas de perforación, este compuesto es necesario “sacarlo” del pozo hacia la superficie. Los buques de apoyo a plataformas petrolíferas como es el caso del buque proyecto deben ser capaces de ir a recoger dicho producto a las plataformas para llevarlo a puerto.

Con dicho compuesto ocurre lo mismo que con la salmuera, dichos tanques pueden almacenar también hidrocarburos cuando el buque entra en modo de recogida de hidrocarburos en alta mar, por tanto, se instalarán mamparos con corrugado vertical en los mamparos transversales intermedios de los tanques de barro de perforación.

Además de favorecer la limpieza del tanque son importantes para este compuesto debido a que dichos tanques van provistos de calentadores para favorecer el bombeo y trasiego del barro de perforación, debido a su alta densidad. Dichos mamparos corrugados se suelen instalar en aquellos tanques de carga sometidos a calor, como es el caso. Debido a esto, se decide que los mamparos intermedios transversales sean corrugados.

A continuación, se muestra a qué mamparos afecta dicha decisión:



Mamparos corrugados intermedios de los tanques de barro de perforación

Al igual que lo comentado en el punto anterior, en el resto de mamparos de dichos tanques se ha decidido colocar los refuerzos “por fuera”, para favorecer la limpieza. Esto se puede comprobar en el plano de la cuaderna maestra, diseñada en el Cuaderno 8.

En el modelado del buque no se ha tenido en cuenta el corrugado de dichos mamparos, sería interesante introducirlos en una segunda vuelta del diseño.

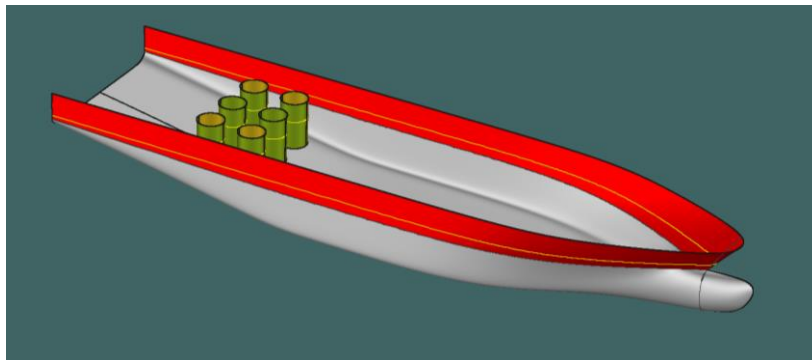
3. Cemento seco

Es un compuesto especial de cemento que utilizan en las plataformas para sellar los pozos de petróleo, tiene una densidad bastante alta (2 kg/m³) y es imprescindible que los buques de apoyo a las plataformas lo puedan transportar. Se almacena en unos tanques específicos de forma cilíndrica en los cuales en la parte inferior se coloca una tolva para su trasiego. Lo más característico de este sistema es que se trasiega mediante aire a presión generado por unos compresores y no mediante bombas, además de unos

filtros de secado, las particularidades de este sistema se comentan detalladamente en el cuaderno 12. Para introducir estos tanques en el modelado del buque se han generado unos tanques cilíndricos, para ello, lo que se ha hecho es crear una superficie cilíndrica con el módulo Modeller del programa Maxsurf. Una vez generadas las superficies, se creó un tanque por cada superficie cilíndrica mediante el Maxsurf Stability que las contuviera en su interior, generando así tanques cilíndricos.

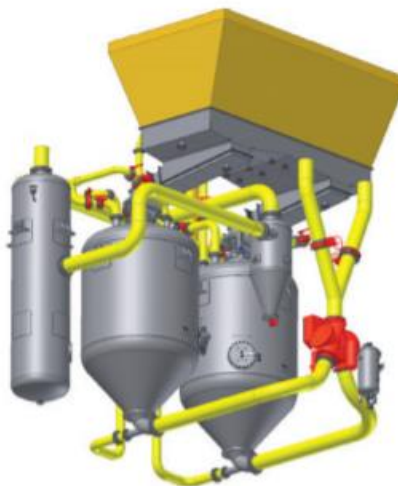
Cabe destacar que dichos tanques generador no tienen tolva, sería interesante introducir dichas tolvas comentadas en una posterior vuelta al diseño del buque.

En la siguiente imagen se pueden observar los tanques cilíndricos generados:



Modelado de los tanques cilíndricos de cemento

A continuación, se muestra una imagen en la que se puede apreciar la forma de dichos tanques:



Tanques cilíndricos con tolva para el transporte de cemento seco

9. Distribución de tanques

Para una buena distribución de tanques, se tienen que considerar tanto las capacidades mínimas calculadas anteriormente como las normas que se apliquen en la construcción del buque. Además, dicha distribución tiene que ser coherente con el compartimentado proyectado en puntos anteriores. Para esta distribución lo que se hará en este proyecto es aplicar una distribución similar a la del buque base Stril Mar, del cual se han obtenido los planos específicos de la distribución de tanques.

Una vez que se ha realizado la distribución del buque proyecto se modifican los tanques para obtener unas capacidades similares a las mínimas exigidas. Cabe destacar que a lo largo de la realización del proyecto se han añadido tanques que han ido surgiendo de diferentes cuadernos (cuadernos 10 y 12).

Una vez finalizada la distribución de tanques, las capacidades reales de los tanques son las siguientes:

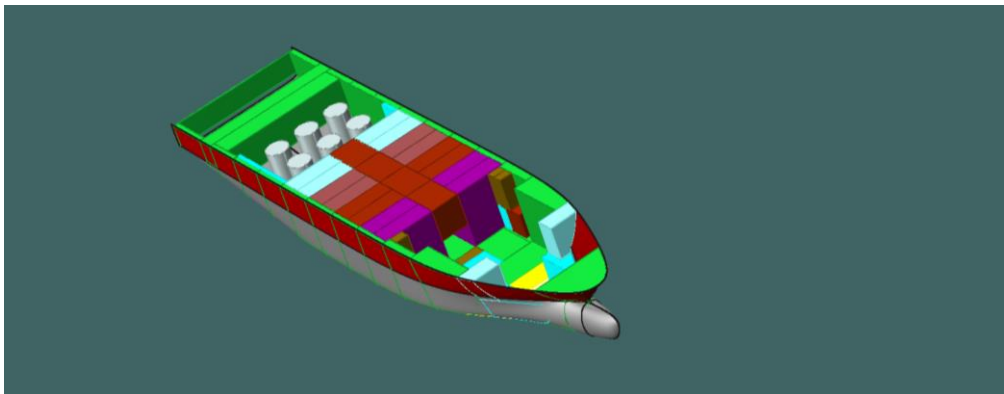
		m3
CONSUMO BUQUE	Diesel oil almacén	<i>531,57</i>
	Diesel oil uso diario	<i>29,08</i>
	Diesel oil sedimentación	<i>42,65</i>
	Diesel oil (TOTAL)	<i>603,3</i>
	Aceite lubricante	<i>43,7</i>
	Aceite hidráulico	<i>21,2</i>
	Agua dulce	<i>146,74</i>
	Agua técnica	<i>165,43</i>
	Aguas grises	<i>22,5</i>
	Aguas negras	<i>18,42</i>
	Lodos	<i>6,32</i>
SUMINISTRO	Agua dulce	<i>1230,441</i>
	Salmuera	<i>1230,441</i>
	Barro de perforación	<i>1268,496</i>
	Diesel oil	<i>1473,696</i>
	Cemento seco	<i>513,5</i>
AUXILIARES	Agua de sentinas	<i>43</i>
	Lastre	<i>4079,868</i>
ESPECIF.	Urea	<i>72</i>
	Watermist	<i>22,65</i>
	Agua caliente	<i>77,2</i>
	Dispersante	<i>46</i>

La nomenclatura utilizada para nombrar a los tanques del buque proyecto es la siguiente:

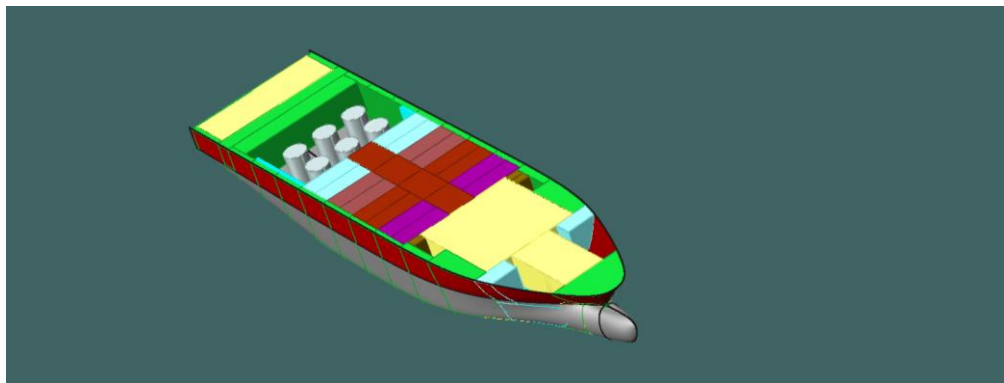
0	<i>Tanques del doble fondo</i>
1	<i>Tanques desde el doble fondo hasta la cubierta de entrepuente</i>
2	<i>Tanques desde el doble fondo hasta la cubierta principal</i>
3	<i>Tanques desde la cubierta de entrepuente hasta la cubierta principal</i>

E	<i>Estribor</i>
B	<i>Babor</i>
C	<i>Crujía</i>

A continuación, se muestra una perspectiva del buque proyecto en el programa MAXSURF en la que se puede ver cómo quedan distribuidos los distintos tanques y el compartimentado:



Distribución tanques modelado 3D



Distribución tanques y compartimentado modelado 3D

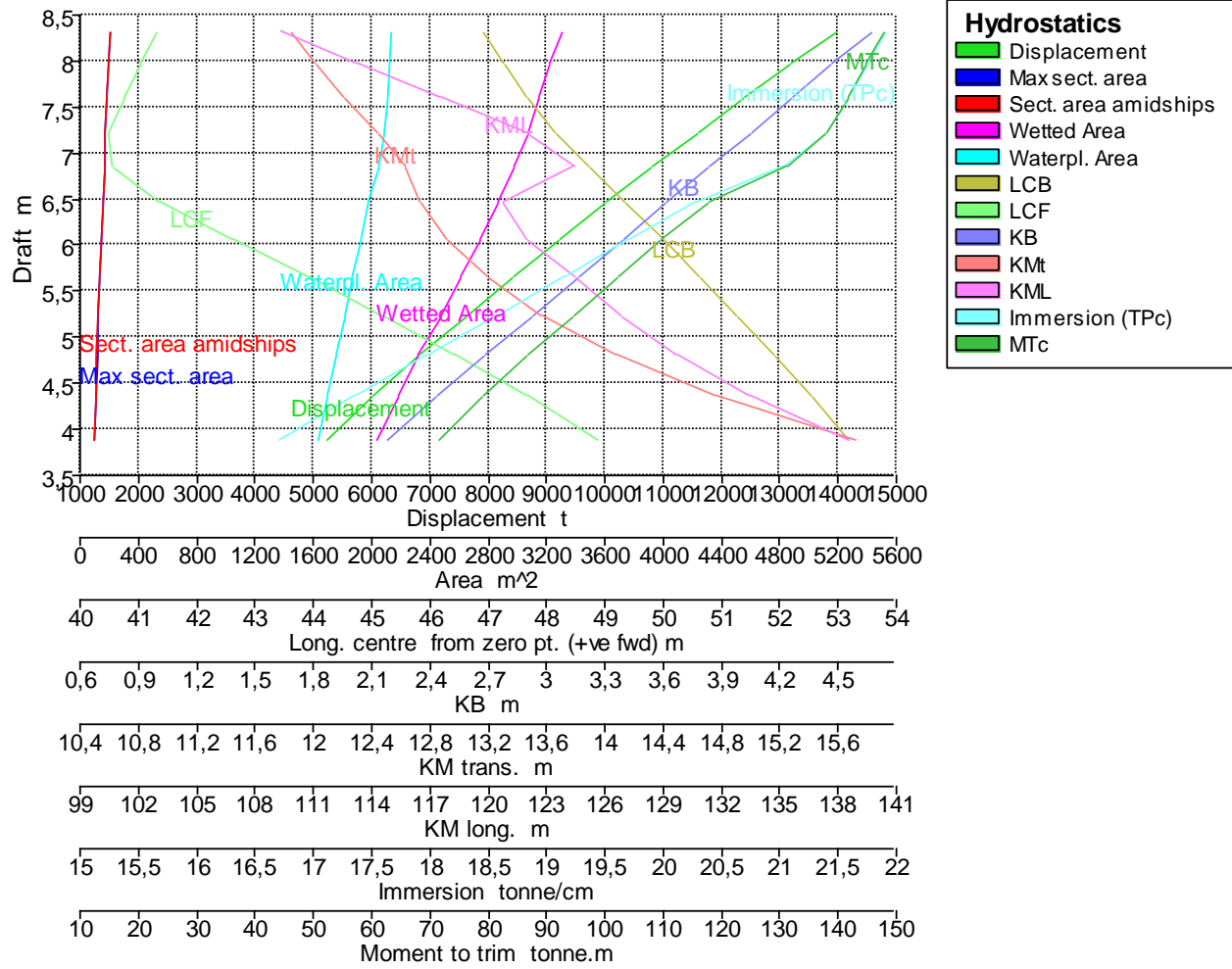
De popa a proa: local de propulsores VOITH, cámara de máquinas y local propulsores transversales. La cámara de bombas no se ve ya que va situada debajo de los tanques de carga en crujía, entre el doble ondo y la cubierta de entrepuente.

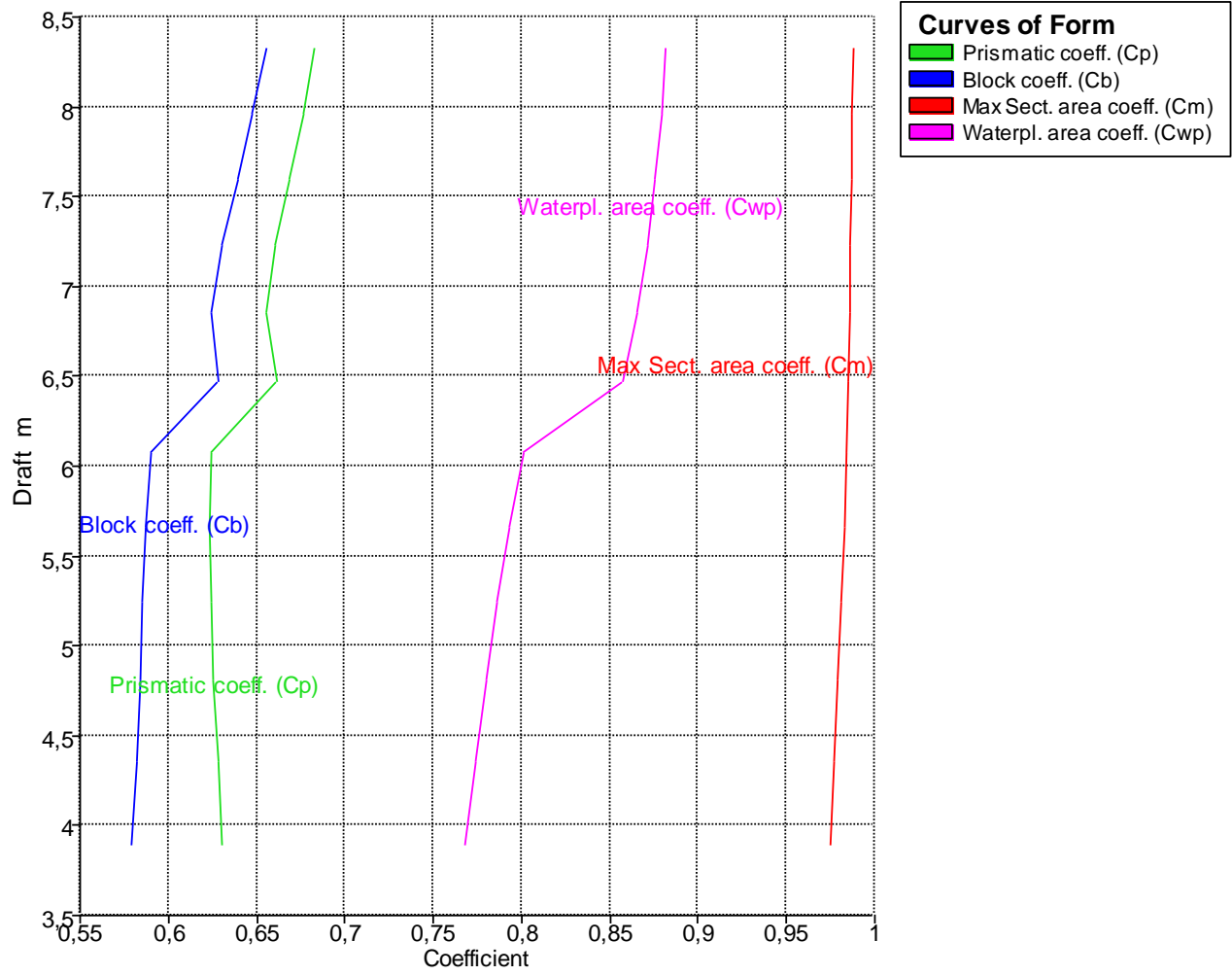
En el anexo IV del presente cuaderno se muestra el plano del compartimentado del buque proyecto, así como el plano de distribución de tanques del mismo acompañado de la leyenda.

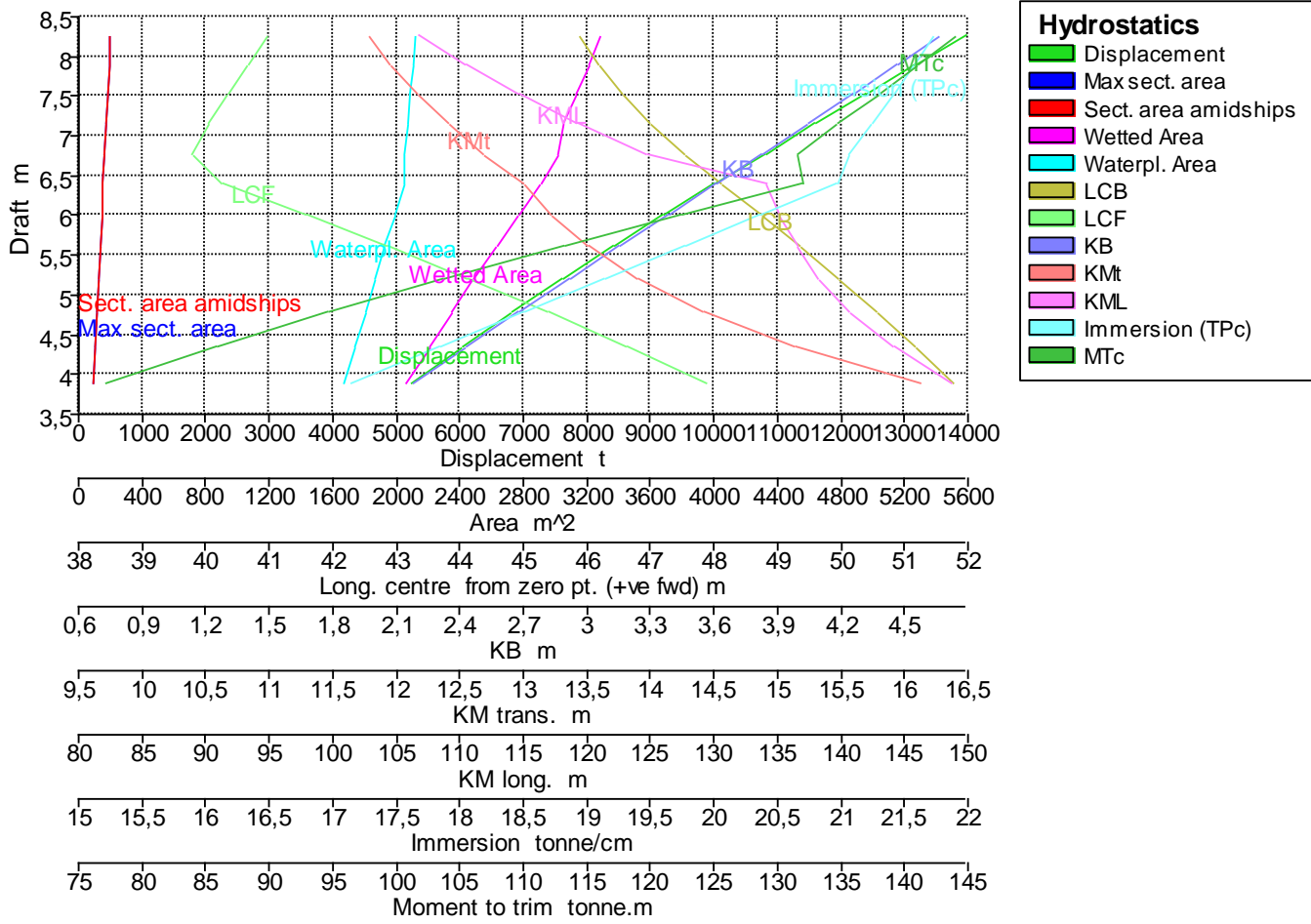
En el anexo V se muestra la calibración de cada uno de los tanques, definido con la nomenclatura expuesta en la página anterior.

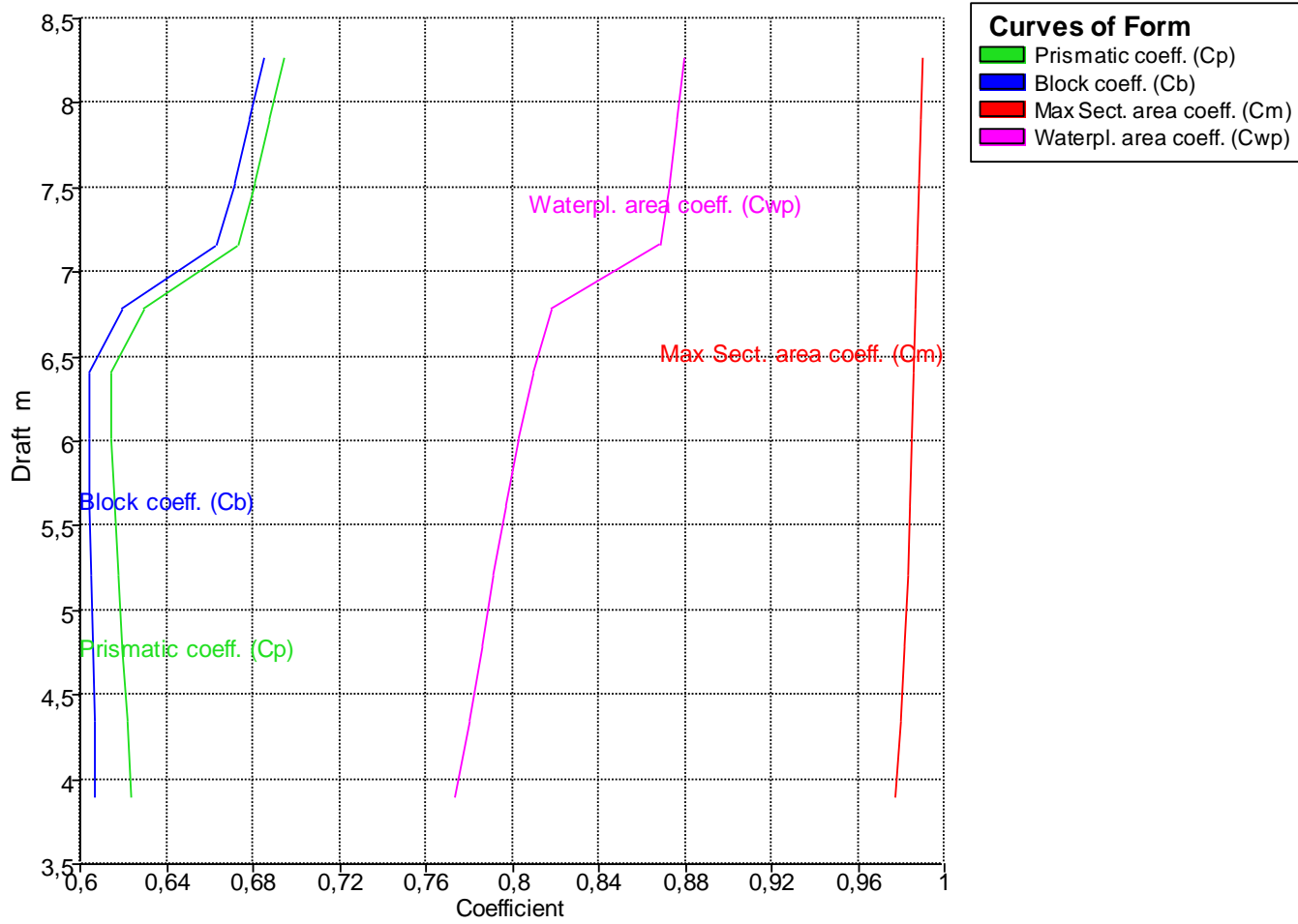
ANEXOS

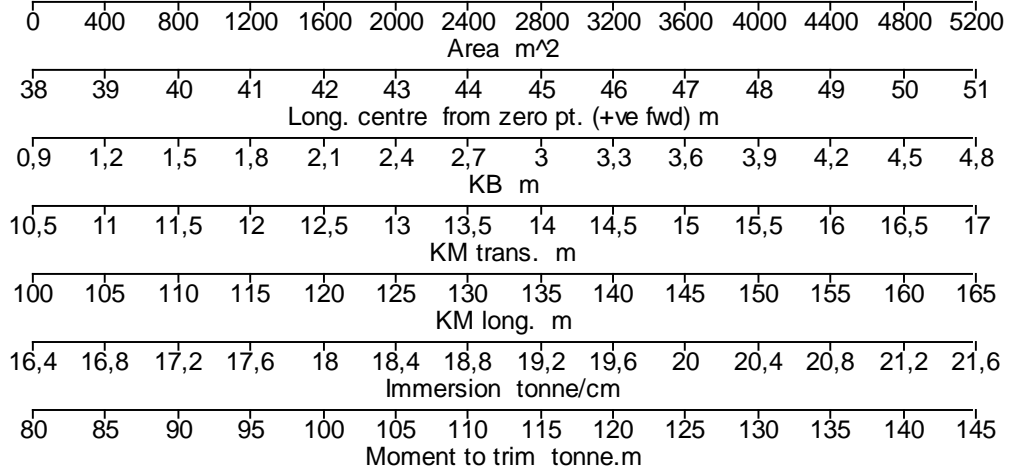
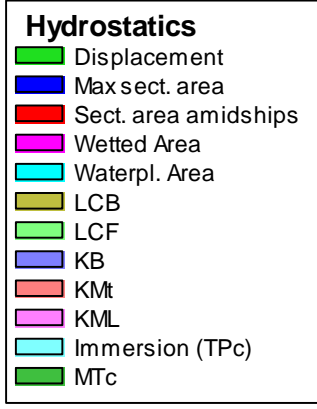
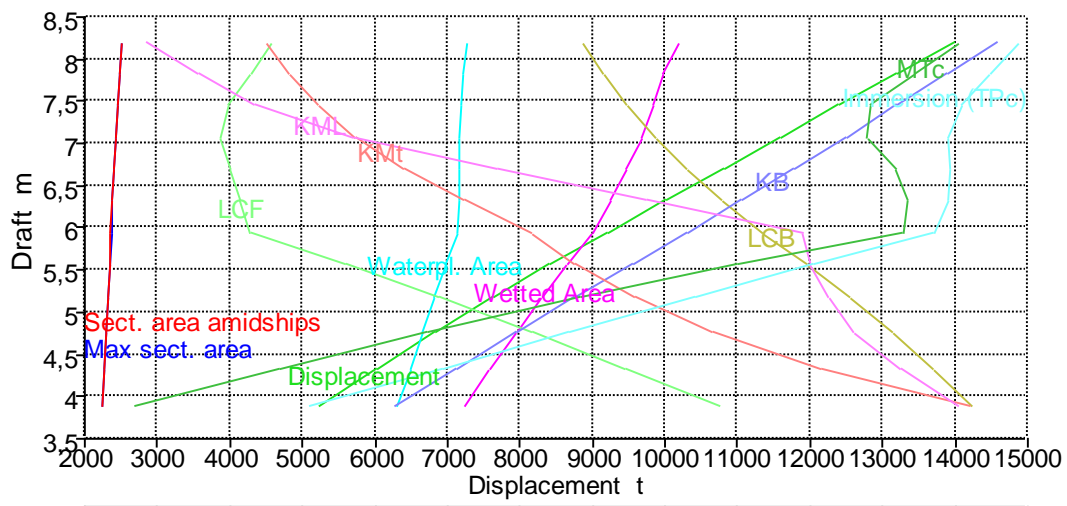
ANEXO 1: Cálculo de las curvas hidrostáticas

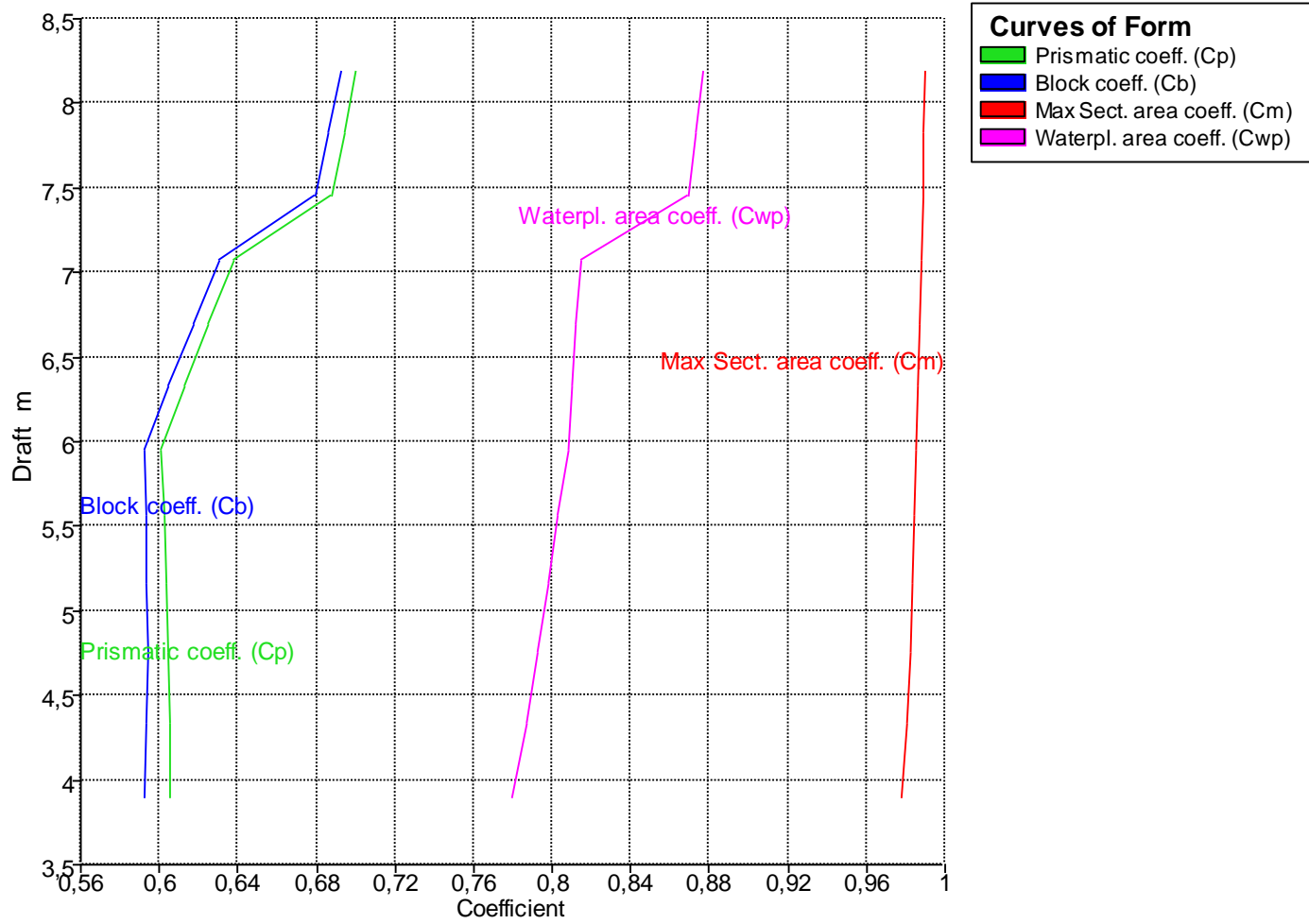












ANEXO 2: Cálculo de las curvas KN

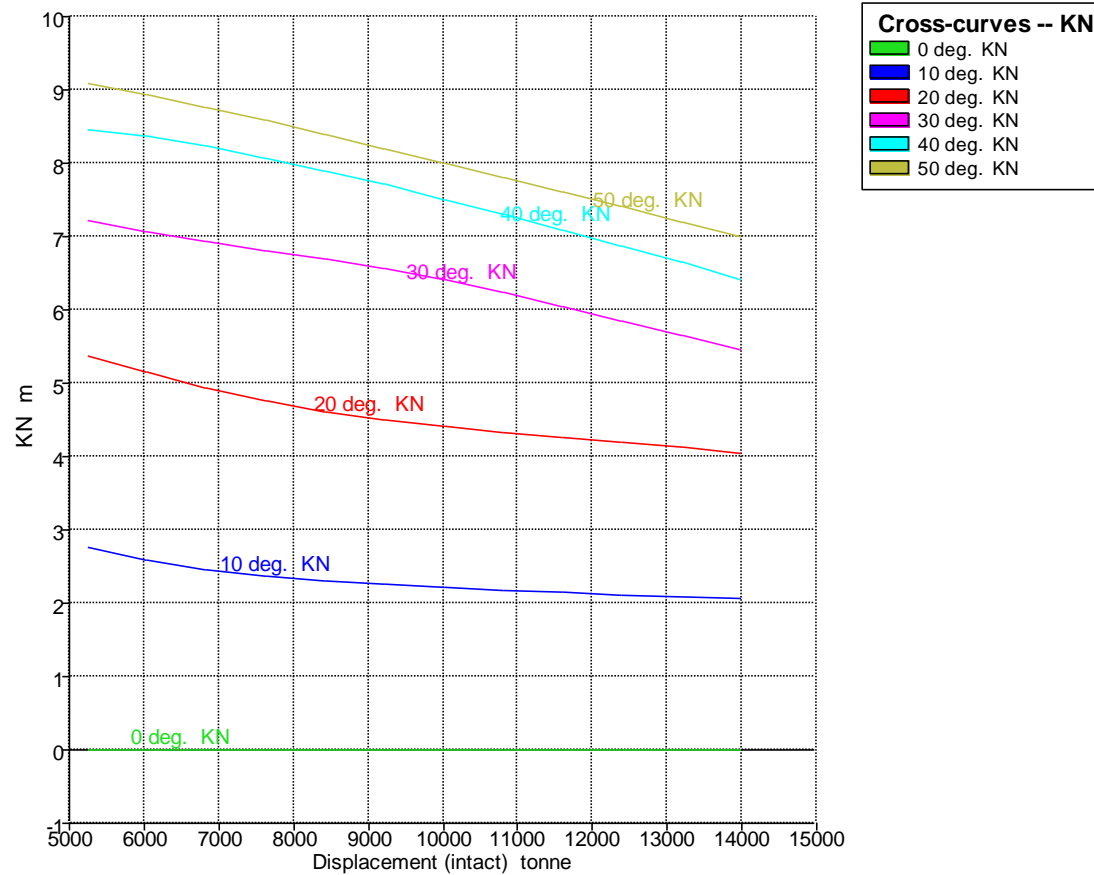
KN calculation - PSV 8500 TPM

Damage Case - Intact

Fixed Trim = -0,954 m (+ve by stern)

Specific gravity = 1,025; (Density = 1,025 tonne/m³)

VCG = 0 m; TCG = 0 m



Displacement (intact) tonne	Draft Amidships m	Trim (+ve by stern) m	LCG m	TCG m	Assumed VCG m	KN 0,0 deg.	KN 10,0 deg. Starb.	KN 20,0 deg. Starb.	KN 30,0 deg. Starb.	KN 40,0 deg. Starb.	KN 50,0 deg. Starb.
5250	3,894	-0,954 (fixed)	53,195	0,000	0,000	0,000	2,751	5,380	7,209	8,454	9,089
6045	4,361	-0,954 (fixed)	52,555	0,000	0,000	0,000	2,585	5,143	7,061	8,364	8,942
6841	4,811	-0,954 (fixed)	51,921	0,000	0,000	0,000	2,465	4,939	6,929	8,233	8,770
7636	5,245	-0,954 (fixed)	51,290	0,000	0,000	0,000	2,377	4,764	6,812	8,076	8,585
8432	5,666	-0,954 (fixed)	50,661	0,000	0,000	0,000	2,312	4,619	6,698	7,899	8,394
9227	6,075	-0,954 (fixed)	50,030	0,000	0,000	0,000	2,260	4,500	6,564	7,709	8,199
10023	6,474	-0,954 (fixed)	49,382	0,000	0,000	0,000	2,216	4,404	6,408	7,510	8,003
10818	6,860	-0,954 (fixed)	48,757	0,000	0,000	0,000	2,180	4,325	6,235	7,304	7,807
11614	7,234	-0,954 (fixed)	48,191	0,000	0,000	0,000	2,147	4,260	6,048	7,090	7,608
12409	7,604	-0,954 (fixed)	47,710	0,000	0,000	0,000	2,117	4,203	5,852	6,870	7,407
13205	7,971	-0,954 (fixed)	47,304	0,000	0,000	0,000	2,091	4,135	5,651	6,643	7,202
14000	8,335	-0,954 (fixed)	46,961	0,000	0,000	0,000	2,067	4,048	5,447	6,412	6,994

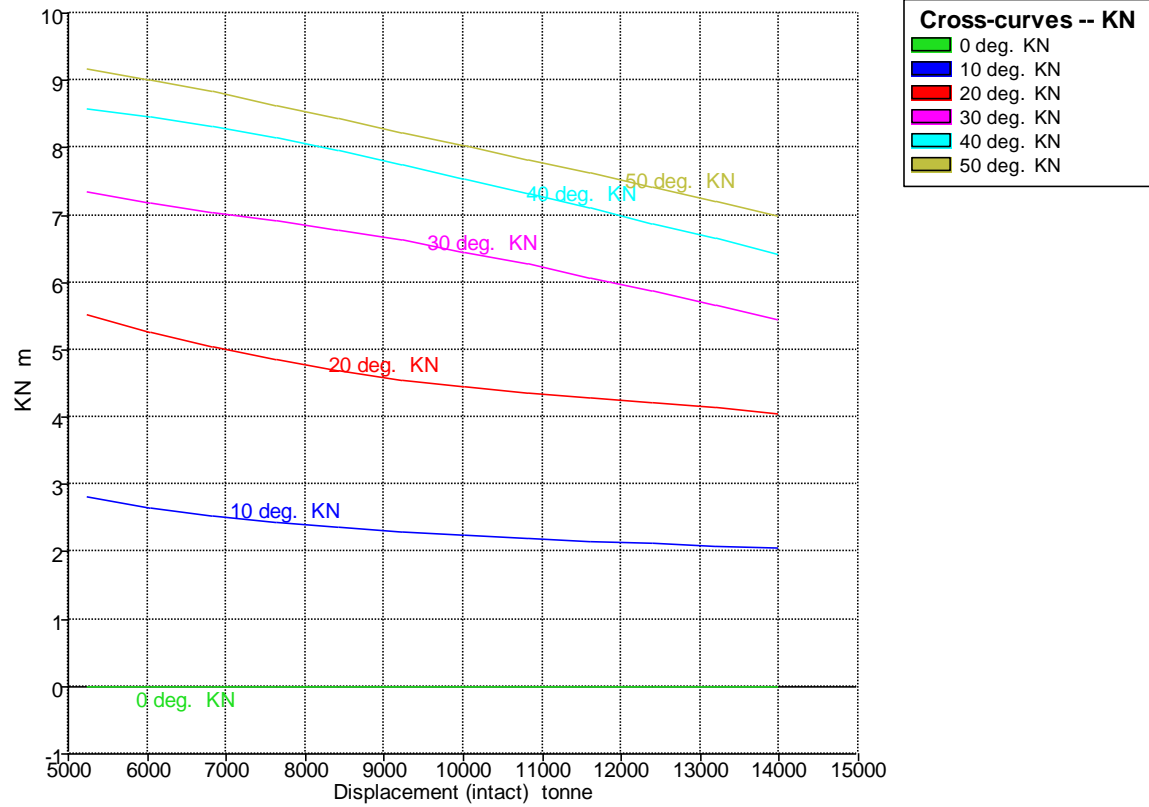
KN calculation - PSV 8500 TPM

Damage Case - Intact

Fixed Trim = 0 m (+ve by stern)

Specific gravity = 1,025; (Density = 1,025 tonne/m³)

VCG = 0 m; TCG = 0 m



Displacement (intact) tonne	Draft Amidships m	Trim (+ve by stern) m	LCG m	TCG m	Assumed VCG m	KN 0,0 deg.	KN 10,0 deg. Starb.	KN 20,0 deg. Starb.	KN 30,0 deg. Starb.	KN 40,0 deg. Starb.	KN 50,0 deg. Starb.
5250	3,901	0,000 (fixed)	51,756	0,000	0,000	0,000	2,825	5,515	7,344	8,579	9,166
6045	4,355	0,000 (fixed)	51,166	0,000	0,000	0,000	2,653	5,262	7,182	8,468	9,011
6841	4,793	0,000 (fixed)	50,567	0,000	0,000	0,000	2,528	5,040	7,037	8,318	8,830
7636	5,215	0,000 (fixed)	49,962	0,000	0,000	0,000	2,434	4,850	6,907	8,143	8,636
8432	5,624	0,000 (fixed)	49,354	0,000	0,000	0,000	2,358	4,690	6,778	7,953	8,435
9227	6,020	0,000 (fixed)	48,741	0,000	0,000	0,000	2,295	4,557	6,626	7,751	8,232
10023	6,404	0,000 (fixed)	48,122	0,000	0,000	0,000	2,242	4,448	6,454	7,542	8,028
10818	6,782	0,000 (fixed)	47,524	0,000	0,000	0,000	2,195	4,358	6,267	7,326	7,825
11614	7,160	0,000 (fixed)	46,985	0,000	0,000	0,000	2,155	4,284	6,069	7,106	7,621
12409	7,533	0,000 (fixed)	46,550	0,000	0,000	0,000	2,119	4,220	5,864	6,881	7,416
13205	7,903	0,000 (fixed)	46,186	0,000	0,000	0,000	2,088	4,142	5,655	6,650	7,209
14000	8,270	0,000 (fixed)	45,881	0,000	0,000	0,000	2,061	4,046	5,446	6,415	6,999

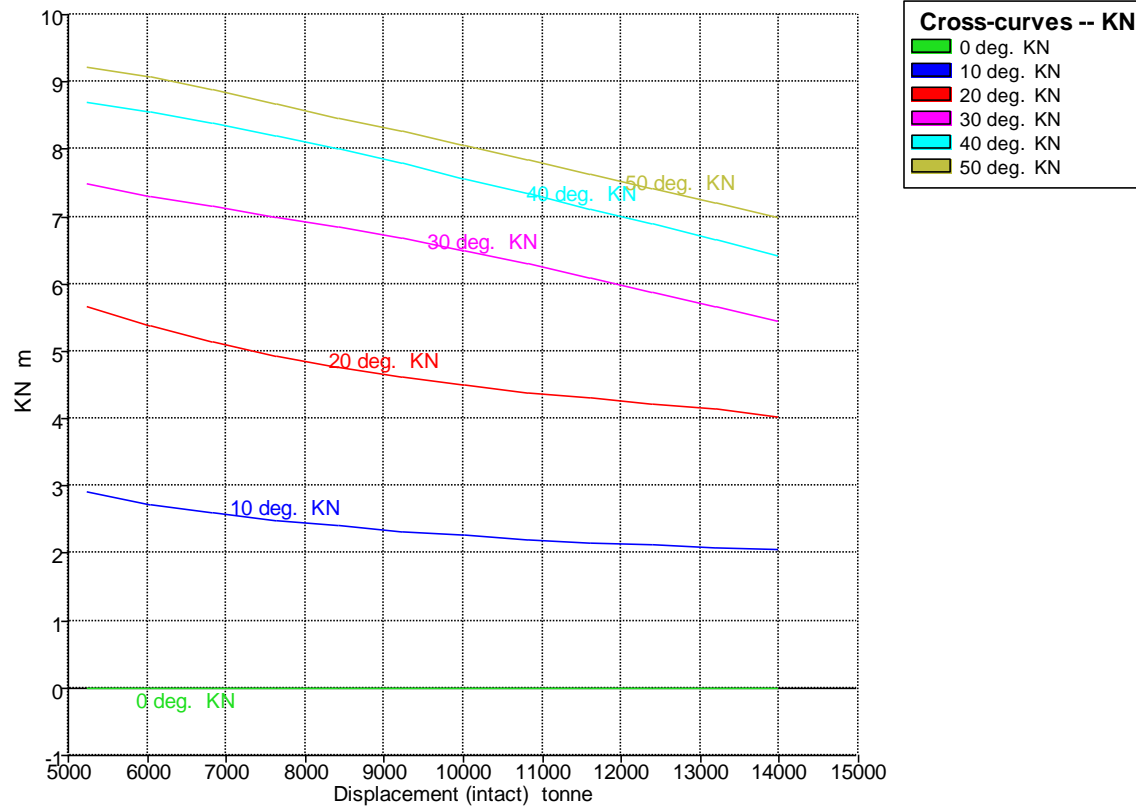
KN calculation - PSV 8500 TPM

Damage Case - Intact

Fixed Trim = 0,954 m (+ve by stern)

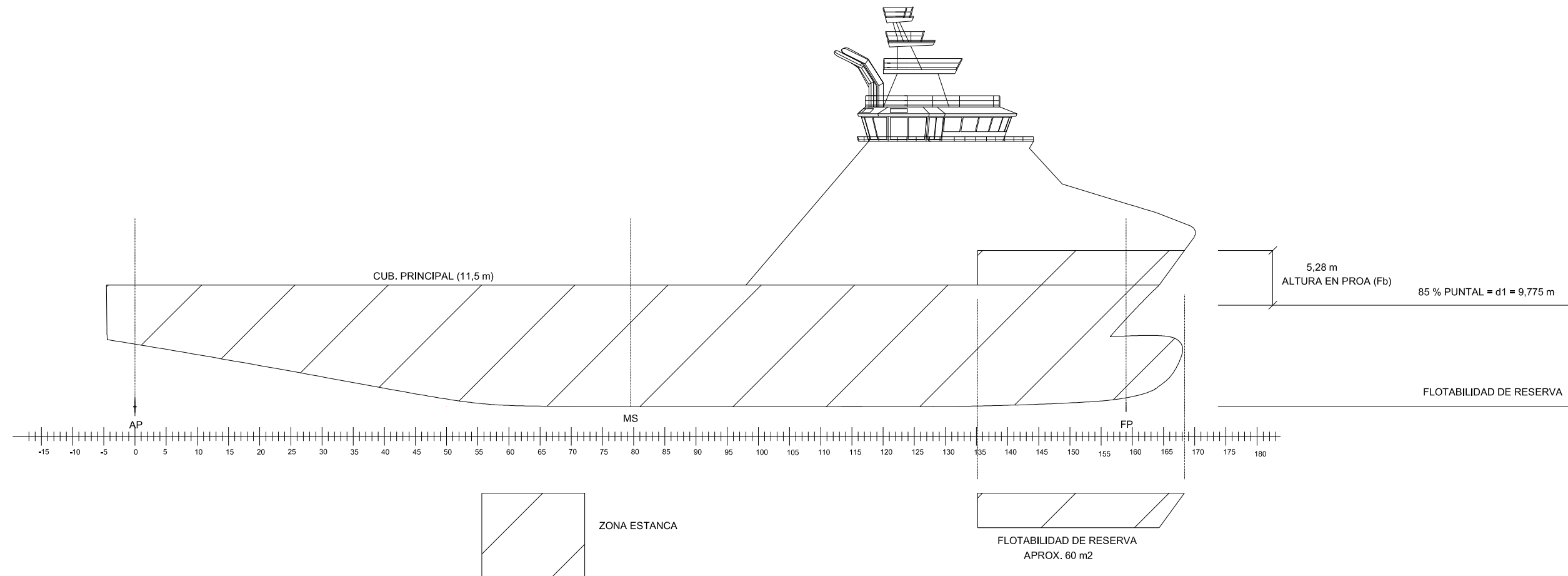
Specific gravity = 1,025; (Density = 1,025 tonne/m³)

VCG = 0 m; TCG = 0 m

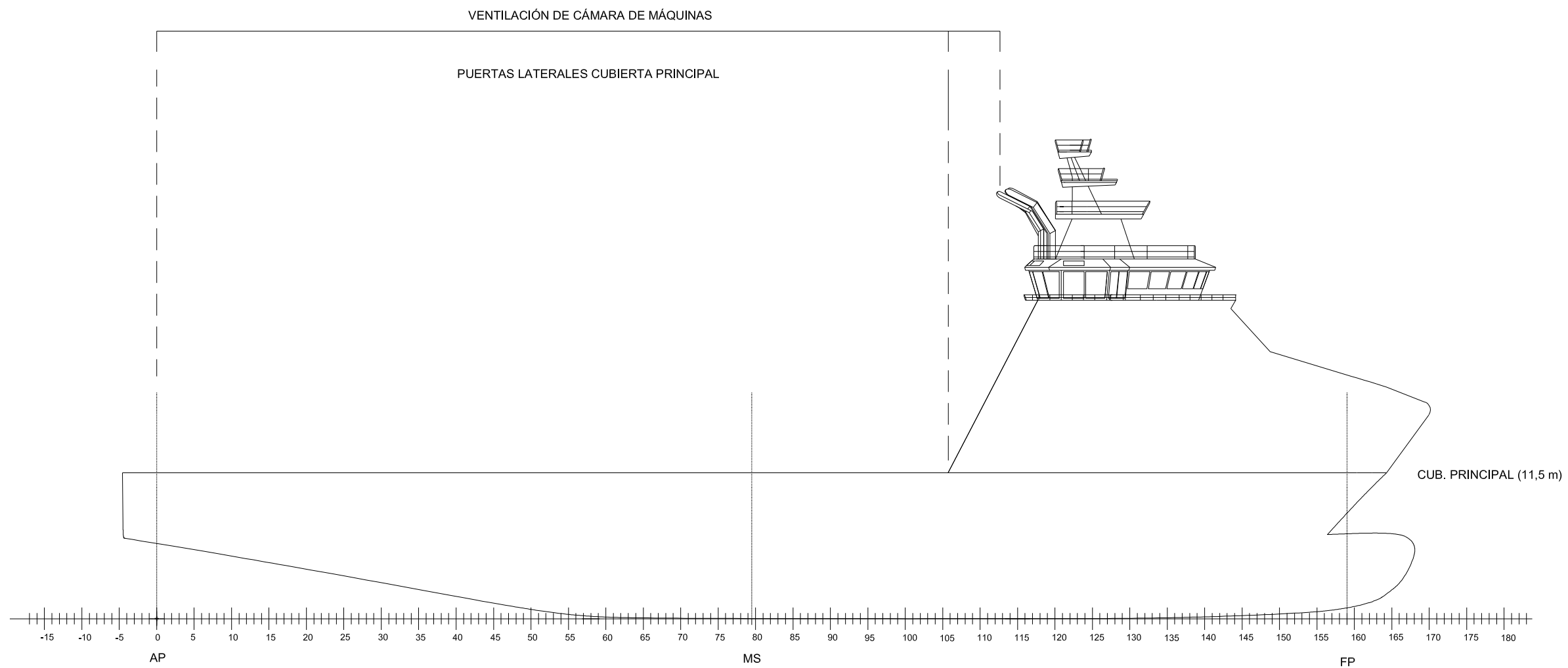


Displacement (intact) tonne	Draft Amidships m	Trim (+ve by stern) m	LCG m	TCG m	Assumed VCG m	KN 0,0 deg.	KN 10,0 deg. Starb.	KN 20,0 deg. Starb.	KN 30,0 deg. Starb.	KN 40,0 deg. Starb.	KN 50,0 deg. Starb.
5250	3,898	0,954 (fixed)	50,208	0,000	0,000	0,000	2,909	5,651	7,478	8,690	9,228
6045	4,339	0,954 (fixed)	49,665	0,000	0,000	0,000	2,731	5,381	7,302	8,558	9,068
6841	4,764	0,954 (fixed)	49,098	0,000	0,000	0,000	2,598	5,143	7,145	8,391	8,881
7636	5,174	0,954 (fixed)	48,514	0,000	0,000	0,000	2,491	4,937	7,000	8,202	8,679
8432	5,569	0,954 (fixed)	47,919	0,000	0,000	0,000	2,403	4,761	6,848	7,999	8,471
9227	5,952	0,954 (fixed)	47,315	0,000	0,000	0,000	2,329	4,615	6,677	7,786	8,260
10023	6,329	0,954 (fixed)	46,747	0,000	0,000	0,000	2,264	4,494	6,490	7,567	8,049
10818	6,705	0,954 (fixed)	46,253	0,000	0,000	0,000	2,208	4,393	6,290	7,343	7,839
11614	7,080	0,954 (fixed)	45,819	0,000	0,000	0,000	2,160	4,308	6,081	7,116	7,631
12409	7,456	0,954 (fixed)	45,426	0,000	0,000	0,000	2,119	4,226	5,867	6,885	7,422
13205	7,831	0,954 (fixed)	45,095	0,000	0,000	0,000	2,084	4,136	5,652	6,651	7,212
14000	8,201	0,954 (fixed)	44,827	0,000	0,000	0,000	2,056	4,032	5,437	6,413	7,000

ANEXO 3: Planos de la zona estanca y de los puntos de inundación progresiva



PSV 8500 TPM	
ESCUELA POLITÉCNICA SUPERIOR DE FERROL	
ESCALA 1:400	ZONA ESTANCA DEL BUQUE PROYECTO

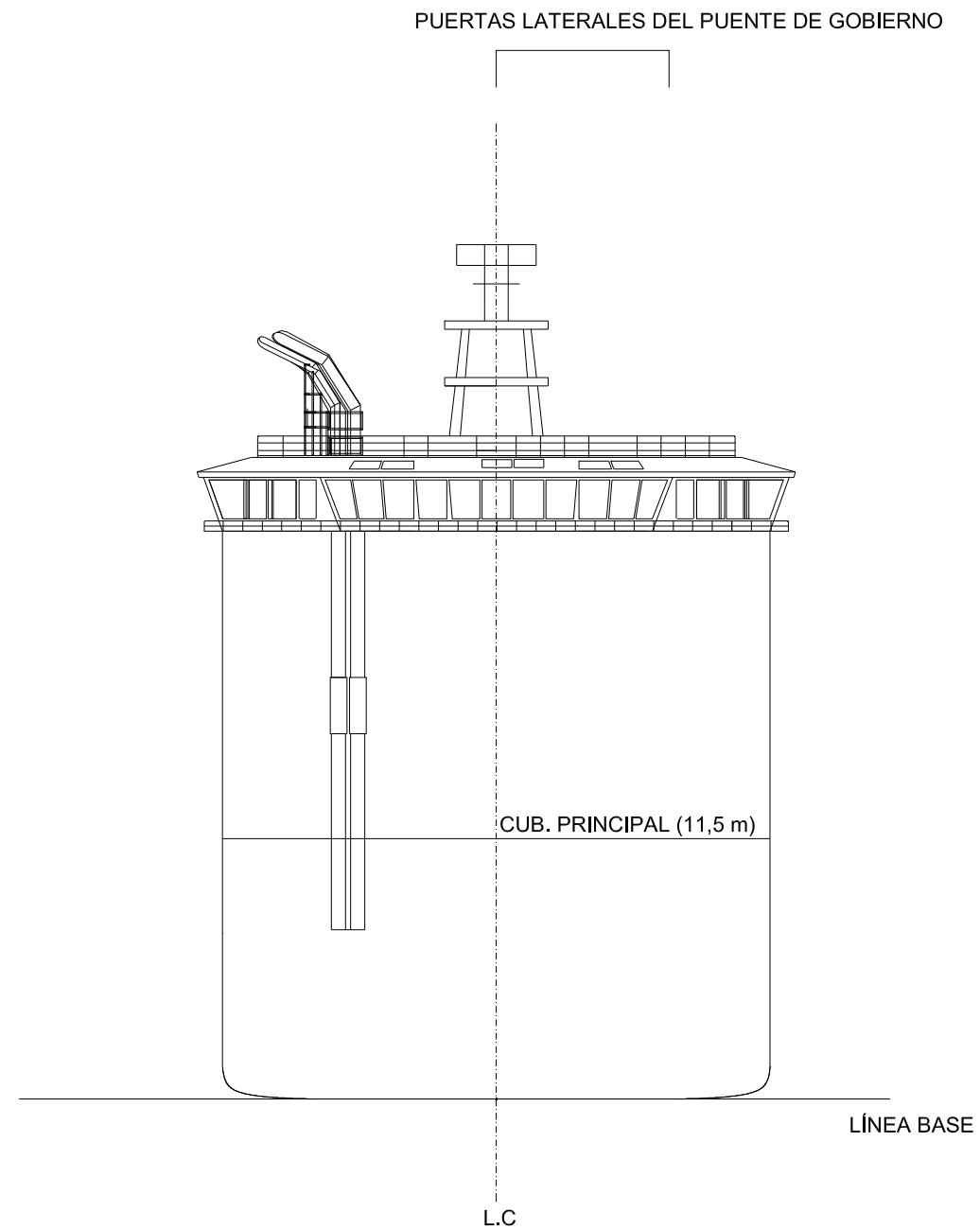


PSV 8500 TPM

ESCUELA POLITÉCNICA SUPERIOR DE FERROL

ESCALA
1:350

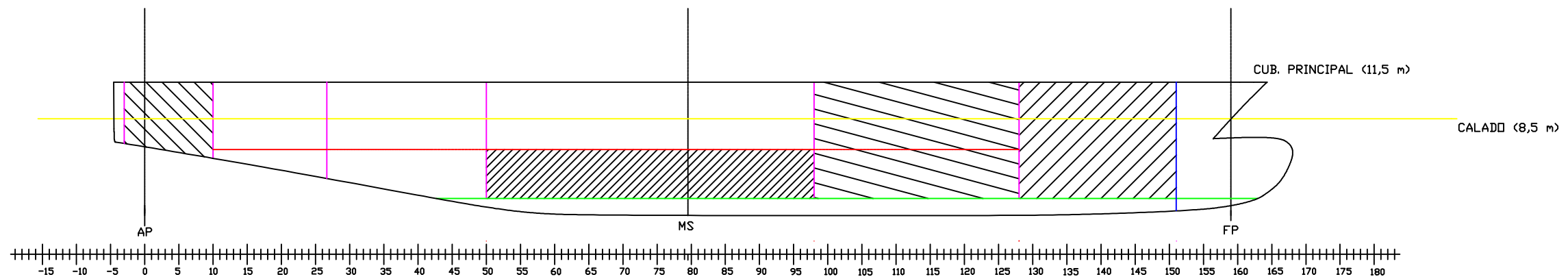
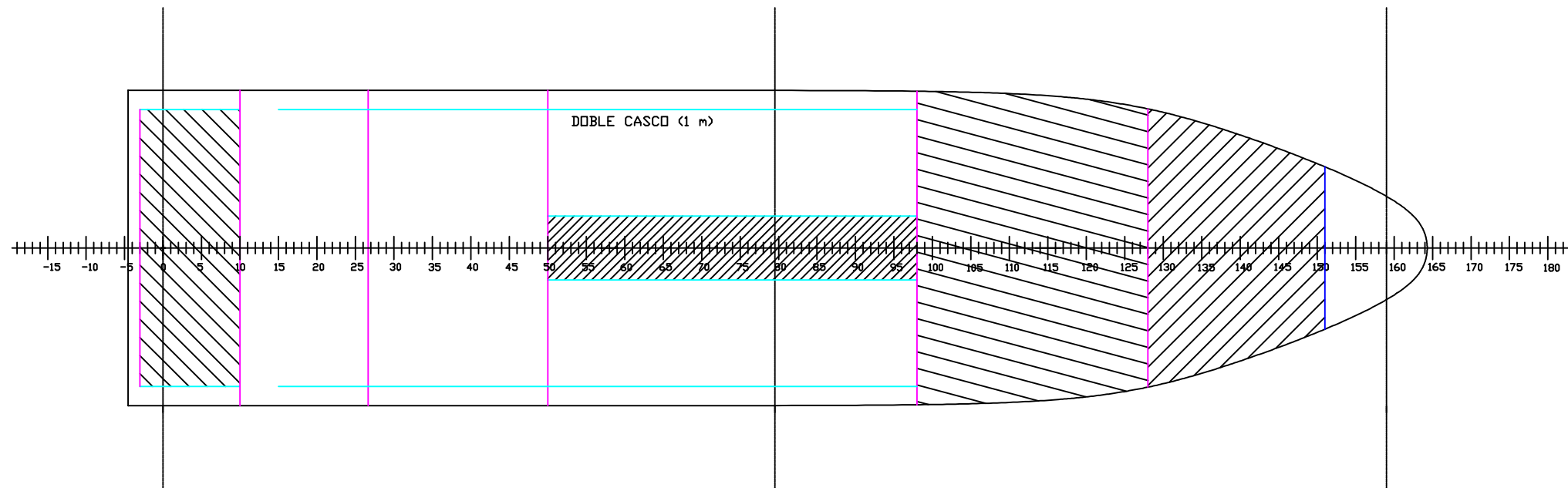
PUNTOS DE INUNDACIÓN PROGRESIVA



SECCIÓN CUADERNA 110

PSV 8500 TPM	
ESCUELA POLITÉCNICA SUPERIOR DE FERROL	
ESCALA 1:350	PUNTOS DE INUNDACIÓN PROGRESIVA

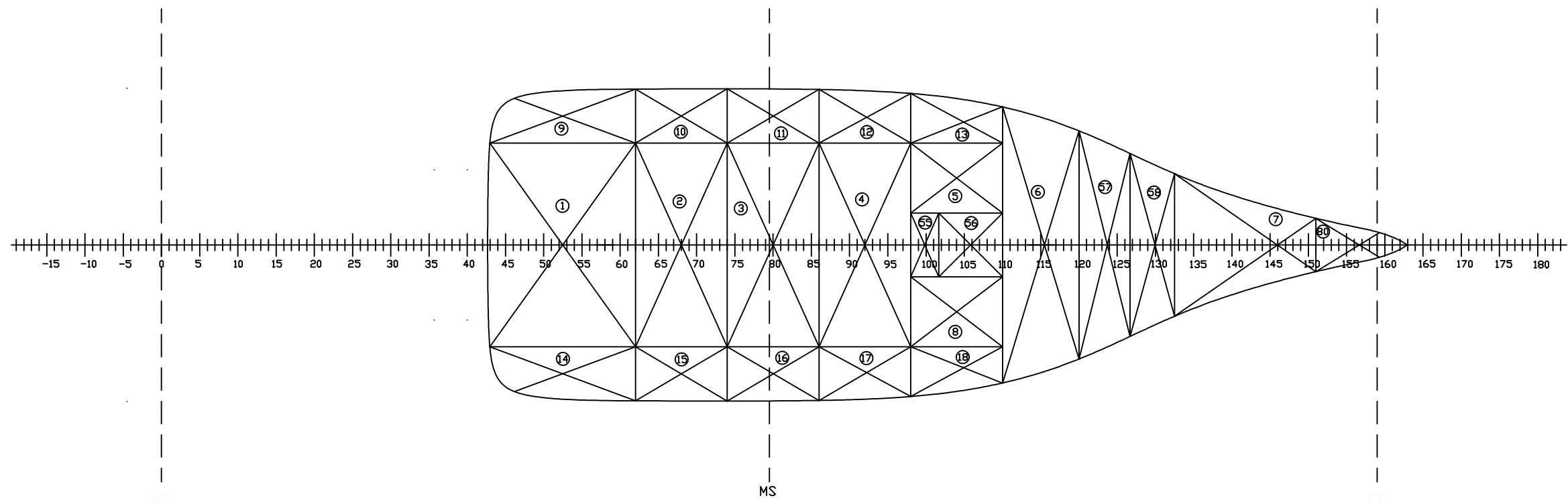
ANEXO 4: Planos del compartimentado del buque y de la distribución de tanques



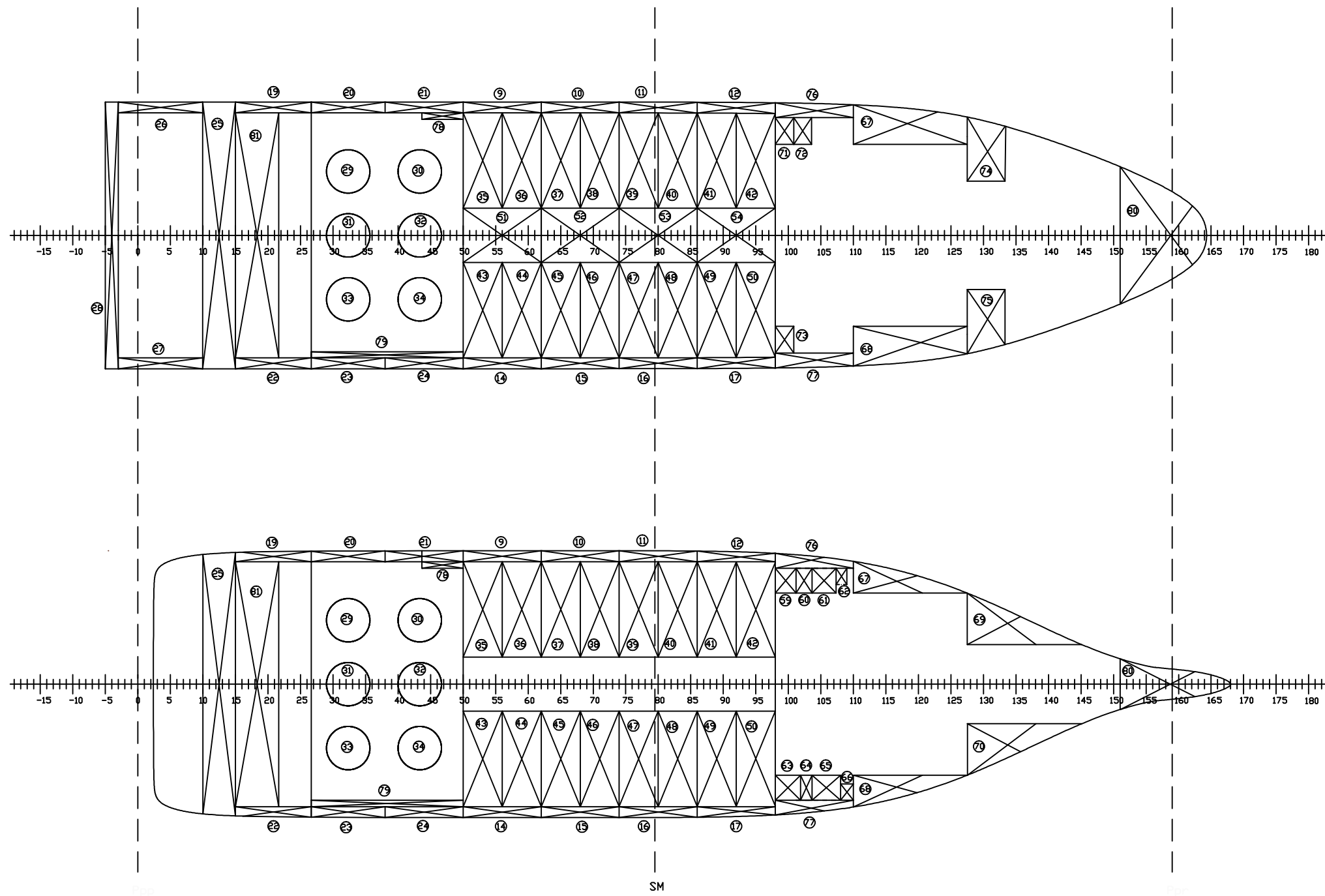
- CUBIERTA DOBLE FONDO (1,5 m)
- MAMPAROS TRANSVERSALES
- LINEAS DE REFERENCIA
- MAMPARO DE COLISION
- CUB. ENTREPUELT (5,8 m)
- MAMPAROS LONGITUDINALES

- LOCAL PROP. VOITH
- CAMARA DE BOMBAS
- CAMARA DE BOMBAS
- LOCAL PROP. TRANSVERSALES PROA

PSV 8500 TPM	
ESCUELA POLITÉCNICA SUPERIOR DE FERROL	
ESCALA 1:400	COMPARTIMENTADO DEL BUQUE PROYECTO



PSV 8500 TPM	
ESCUELA POLITÉCNICA SUPERIOR DE FERROL	
ESCALA 1:350	DISPOSICIÓN DE TANQUES



PSV 8500 TPM	
ESCUELA POLITÉCNICA SUPERIOR DE FERROL	
ESCALA 1:400	DISPOSICIÓN DE TANQUES

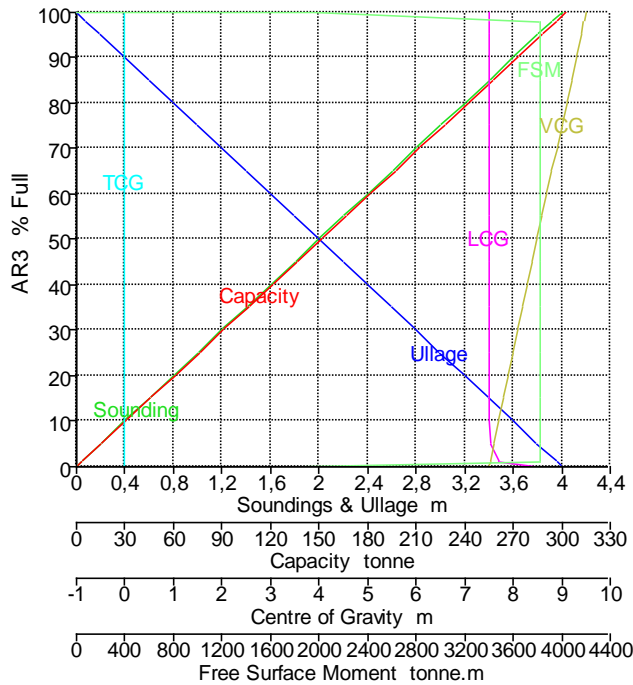
ANEXO 5: Calibración de tanques

Tank Calibrations - AR3

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = -0,954 m (+ve by stern); Heel = 0 deg



AR3
Initial (upright) Trim: -0,954 m; Heel: 0 deg

- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

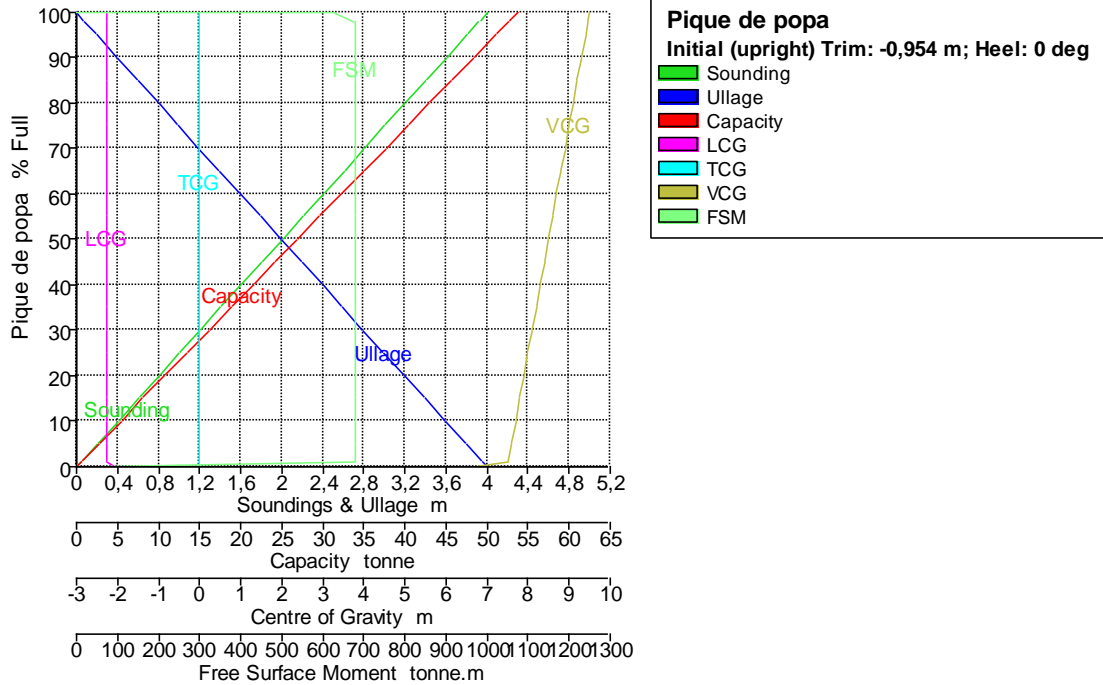
Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
AR3	4,000	0,000	100,000	295,412	302,798	7,500	0,000	9,500	0,000
	4,000	0,000	99,914	295,159	302,538	7,501	0,000	9,498	1960,369
	3,919	0,081	98,000	289,504	296,742	7,502	0,000	9,460	3823,197
	3,915	0,085	97,900	289,209	296,439	7,502	0,000	9,458	3823,197
	3,800	0,200	95,016	280,690	287,707	7,502	0,000	9,400	3823,203
	3,600	0,400	90,016	265,919	272,567	7,502	0,000	9,300	3823,211
	3,400	0,600	85,016	251,149	257,428	7,502	0,000	9,200	3823,219
	3,200	0,800	80,016	236,378	242,288	7,502	0,000	9,100	3823,226
	3,000	1,000	75,016	221,608	227,148	7,502	0,000	9,000	3823,232
	2,800	1,200	70,016	206,837	212,008	7,503	0,000	8,900	3823,237
	2,600	1,400	65,016	192,066	196,868	7,503	0,000	8,800	3823,241
	2,400	1,600	60,016	177,296	181,728	7,503	0,000	8,700	3823,243
	2,200	1,800	55,016	162,525	166,588	7,503	0,000	8,600	3823,244
	2,000	2,000	50,016	147,754	151,448	7,504	0,000	8,500	3823,244
	1,800	2,200	45,016	132,984	136,308	7,504	0,000	8,400	3823,242
	1,600	2,400	40,016	118,213	121,168	7,505	0,000	8,300	3823,237
	1,400	2,600	35,016	103,442	106,028	7,505	0,000	8,200	3823,230
	1,200	2,800	30,016	88,672	90,888	7,506	0,000	8,100	3823,220
	1,000	3,000	25,016	73,901	75,749	7,507	0,000	8,000	3823,207
	0,800	3,200	20,016	59,130	60,609	7,509	0,000	7,900	3823,188
	0,600	3,400	15,016	44,360	45,469	7,512	0,000	7,800	3823,164
	0,400	3,600	10,016	29,589	30,329	7,519	0,000	7,700	3823,131
	0,200	3,800	5,016	14,819	15,189	7,537	0,000	7,601	3823,085
	0,039	3,961	1,000	2,954	3,028	7,687	0,000	7,521	3823,029
	0,000	4,000	0,102	0,302	0,309	8,478	0,000	7,490	1862,728

Tank Calibrations - Pique de popa

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = -0,954 m (+ve by stern); Heel = 0 deg



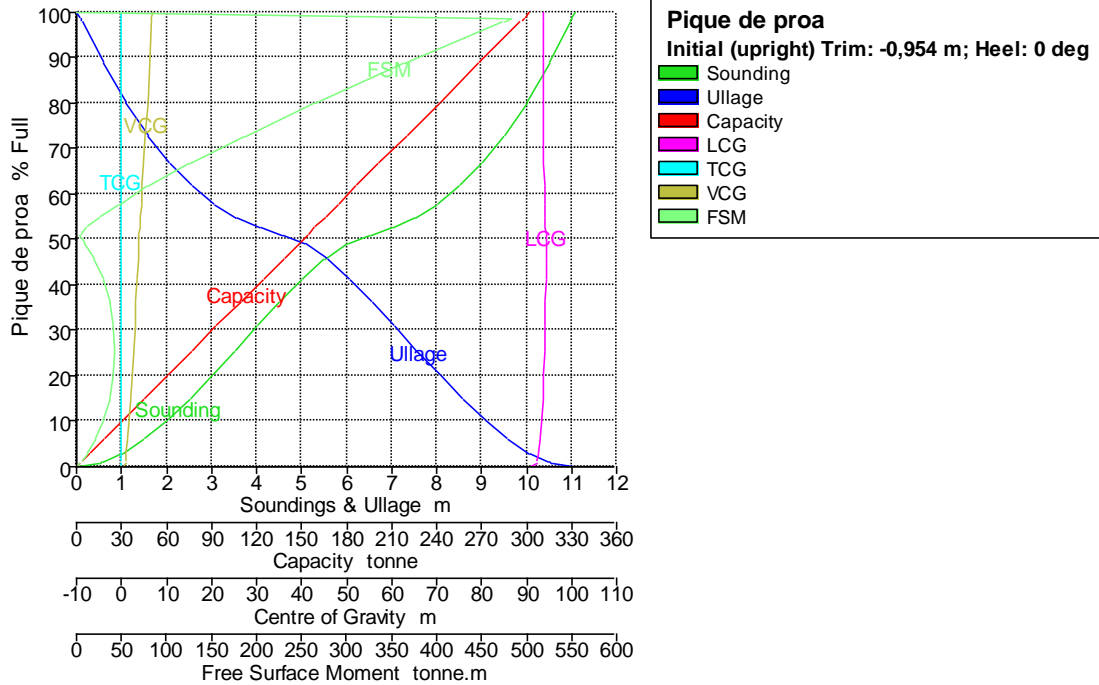
Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Pique de popa	4,000	0,000	100,000	52,421	53,732	-2,266	0,000	9,500	0,000
	4,000	0,000	99,941	52,390	53,700	-2,266	0,000	9,499	625,859
	3,922	0,078	98,000	51,373	52,657	-2,266	0,000	9,460	680,141
	3,918	0,082	97,900	51,320	52,603	-2,266	0,000	9,458	680,141
	3,800	0,200	94,955	49,776	51,021	-2,266	0,000	9,399	680,141
	3,600	0,400	89,955	47,155	48,334	-2,266	0,000	9,299	680,141
	3,400	0,600	84,955	44,534	45,647	-2,266	0,000	9,199	680,141
	3,200	0,800	79,955	41,913	42,961	-2,266	0,000	9,099	680,141
	3,000	1,000	74,954	39,292	40,274	-2,266	0,000	8,999	680,141
	2,800	1,200	69,954	36,671	37,588	-2,266	0,000	8,899	680,141
	2,600	1,400	64,954	34,050	34,901	-2,266	0,000	8,799	680,140
	2,400	1,600	59,954	31,429	32,214	-2,266	0,000	8,699	680,140
	2,200	1,800	54,954	28,808	29,528	-2,266	0,000	8,599	680,140
	2,000	2,000	49,954	26,186	26,841	-2,266	0,000	8,499	680,140
	1,800	2,200	44,954	23,565	24,155	-2,266	0,000	8,399	680,140
	1,600	2,400	39,954	20,944	21,468	-2,266	0,000	8,299	680,140
	1,400	2,600	34,954	18,323	18,781	-2,266	0,000	8,199	680,140
	1,200	2,800	29,954	15,702	16,095	-2,266	0,000	8,099	680,140
	1,000	3,000	24,954	13,081	13,408	-2,266	0,000	7,999	680,139
	0,800	3,200	19,954	10,460	10,722	-2,266	0,000	7,899	680,139
	0,600	3,400	14,954	7,839	8,035	-2,266	0,000	7,799	680,139
	0,400	3,600	9,954	5,218	5,348	-2,266	0,000	7,699	680,139
	0,200	3,800	4,954	2,597	2,662	-2,265	0,000	7,599	680,139
	0,042	3,958	1,000	0,524	0,537	-2,260	0,000	7,520	679,142
	0,000	4,000	0,002	0,001	0,001	-2,028	0,000	6,652	54,145

Tank Calibrations - Pique de proa

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

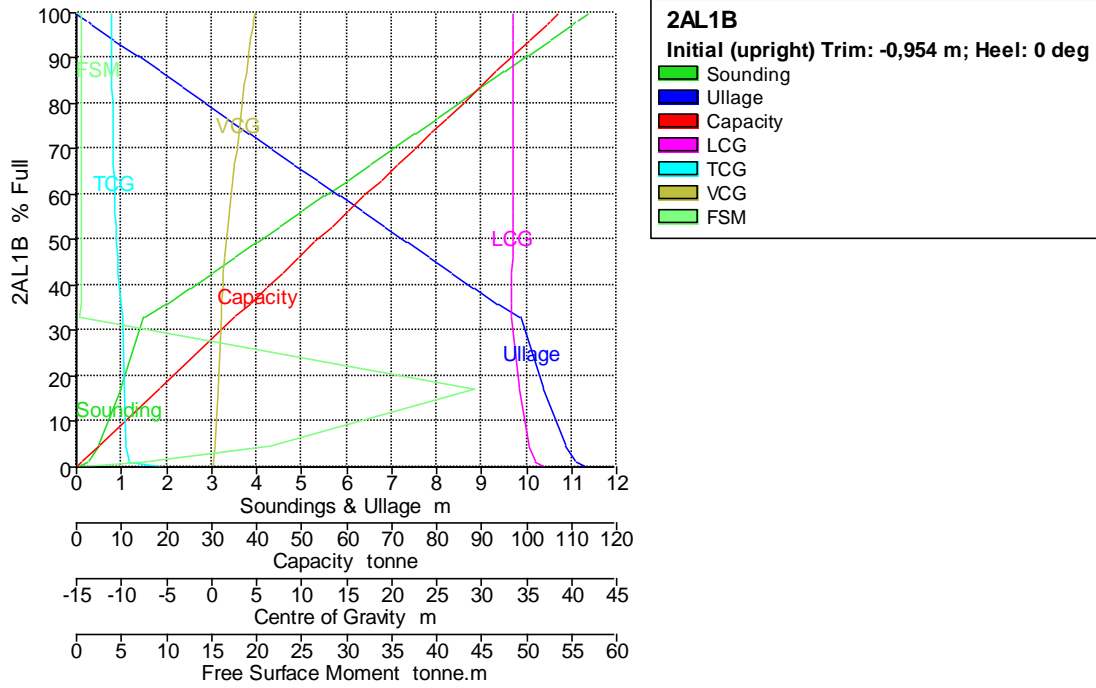
Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Pique de proa	11,089	0,000	100,000	294,566	301,930	93,673	0,000	6,855	0,000
	11,000	0,089	98,739	290,852	298,123	93,681	0,000	6,796	483,038
	10,966	0,124	98,000	288,675	295,892	93,681	0,000	6,761	474,041
	10,961	0,129	97,900	288,380	295,590	93,681	0,000	6,757	472,822
	10,500	0,589	88,683	261,232	267,762	93,687	0,000	6,297	362,750
	10,000	1,089	80,040	235,772	241,666	93,718	0,000	5,823	263,981
	9,500	1,589	72,719	214,206	219,562	93,772	0,000	5,382	185,008
	9,000	2,089	66,622	196,246	201,152	93,845	0,000	4,988	123,792
	8,500	2,589	61,653	181,609	186,150	93,932	0,000	4,649	78,191
	8,000	3,089	57,715	170,008	174,258	94,026	0,000	4,373	45,879
	7,500	3,589	54,702	161,134	165,163	94,118	0,000	4,163	24,401
	7,000	4,089	52,511	154,680	158,547	94,200	0,000	4,016	11,316
	6,500	4,589	51,034	150,328	154,086	94,266	0,000	3,929	4,277
	6,000	5,089	49,292	145,198	148,827	94,301	0,000	3,839	8,595
	5,500	5,589	45,753	134,773	138,142	94,297	0,000	3,659	19,686
	5,000	6,089	41,214	121,402	124,437	94,261	0,000	3,435	29,587
	4,500	6,589	36,116	106,387	109,047	94,199	0,000	3,187	36,887
	4,000	7,089	30,740	90,550	92,813	94,112	0,000	2,922	41,251
	3,500	7,589	25,285	74,482	76,344	93,998	0,000	2,644	42,609
	3,000	8,089	19,924	58,688	60,155	93,851	0,000	2,357	41,002
	2,500	8,589	14,822	43,660	44,752	93,662	0,000	2,061	36,605
	2,000	9,089	10,161	29,931	30,680	93,420	0,000	1,757	29,834
	1,500	9,589	6,136	18,075	18,527	93,117	0,000	1,448	21,481
	1,000	10,089	2,931	8,634	8,850	92,725	0,000	1,134	12,517
	0,573	10,517	1,000	2,946	3,019	92,253	0,000	0,853	5,217
	0,500	10,589	0,760	2,239	2,295	92,149	0,000	0,802	4,109
	0,000	11,089	0,000	0,000	0,000	90,624	0,000	0,411	0,000

Tank Calibrations - 2AL1B

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL1B	11,367	0,000	100,000	104,651	107,268	33,514	-11,172	4,764	0,000
	11,367	0,000	99,753	104,393	107,003	33,517	-11,170	4,747	0,609
	11,112	0,256	98,000	102,558	105,122	33,515	-11,159	4,629	0,609
	11,097	0,270	97,900	102,454	105,015	33,515	-11,158	4,623	0,609
	11,000	0,367	97,235	101,758	104,302	33,514	-11,154	4,578	0,609
	10,500	0,867	93,806	98,169	100,624	33,511	-11,130	4,349	0,609
	10,000	1,367	90,377	94,581	96,945	33,508	-11,104	4,121	0,609
	9,500	1,867	86,947	90,991	93,266	33,504	-11,077	3,896	0,610
	9,000	2,367	83,517	87,402	89,587	33,501	-11,047	3,672	0,610
	8,500	2,867	80,088	83,813	85,908	33,496	-11,014	3,450	0,609
	8,000	3,367	76,658	80,224	82,230	33,492	-10,978	3,231	0,609
	7,500	3,867	73,230	76,636	78,552	33,487	-10,940	3,015	0,608
	7,000	4,367	69,803	73,050	74,876	33,481	-10,897	2,802	0,607
	6,500	4,867	66,380	69,468	71,204	33,475	-10,850	2,594	0,605
	6,000	5,367	62,959	65,888	67,535	33,468	-10,798	2,390	0,604
	5,500	5,867	59,541	62,311	63,868	33,461	-10,740	2,191	0,603
	5,000	6,367	56,127	58,738	60,206	33,452	-10,676	1,999	0,600
	4,500	6,867	52,718	55,170	56,550	33,442	-10,603	1,815	0,596
	4,000	7,367	49,319	51,613	52,903	33,431	-10,520	1,641	0,591
	3,500	7,867	45,932	48,069	49,270	33,417	-10,425	1,478	0,582
	3,000	8,367	42,567	44,547	45,660	33,401	-10,317	1,330	0,569
	2,500	8,867	39,235	41,060	42,086	33,382	-10,191	1,201	0,548
	2,000	9,367	35,962	37,634	38,575	33,358	-10,046	1,097	0,511
	1,500	9,867	32,814	34,341	35,199	33,327	-9,881	1,025	0,433
	1,000	10,367	17,063	17,857	18,303	34,198	-9,762	0,758	44,261

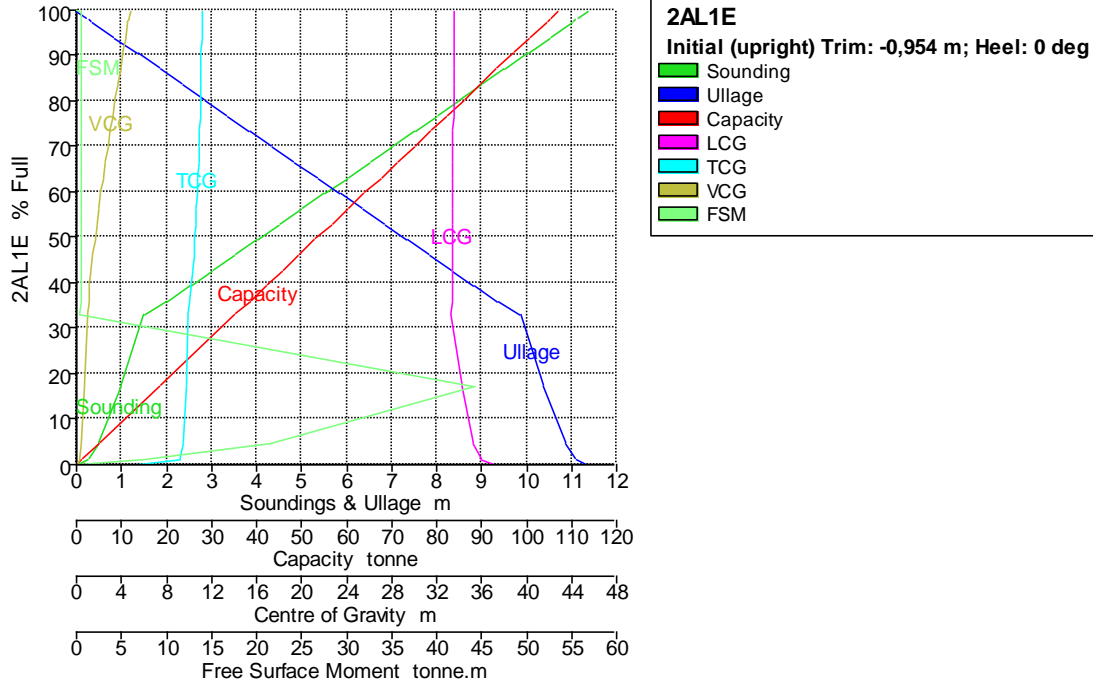
Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,500	10,867	4,577	4,790	4,910	35,254	-9,503	0,450	21,225
	0,240	11,127	1,000	1,047	1,073	35,994	-9,152	0,289	7,157
	0,000	11,367	0,000	0,000	0,000	37,173	-5,335	0,133	0,000

Tank Calibrations - 2AL1E

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL1E	11,367	0,000	100,000	104,651	107,268	33,514	11,172	4,764	0,000
	11,367	0,000	99,753	104,393	107,003	33,517	11,170	4,747	0,609
	11,112	0,256	98,000	102,558	105,122	33,515	11,159	4,629	0,609
	11,097	0,270	97,900	102,454	105,015	33,515	11,158	4,623	0,609
	11,000	0,367	97,235	101,758	104,302	33,514	11,154	4,578	0,609
	10,500	0,867	93,806	98,169	100,624	33,511	11,130	4,349	0,609
	10,000	1,367	90,377	94,581	96,945	33,508	11,104	4,121	0,609
	9,500	1,867	86,947	90,991	93,266	33,504	11,077	3,896	0,610
	9,000	2,367	83,517	87,402	89,587	33,501	11,047	3,672	0,610
	8,500	2,867	80,088	83,813	85,908	33,496	11,014	3,450	0,609
	8,000	3,367	76,658	80,224	82,230	33,492	10,978	3,231	0,609
	7,500	3,867	73,230	76,636	78,552	33,487	10,940	3,015	0,608
	7,000	4,367	69,803	73,050	74,876	33,481	10,897	2,802	0,607
	6,500	4,867	66,380	69,468	71,204	33,475	10,850	2,594	0,605
	6,000	5,367	62,959	65,888	67,535	33,468	10,798	2,390	0,604
	5,500	5,867	59,541	62,311	63,868	33,461	10,740	2,191	0,603
	5,000	6,367	56,127	58,738	60,206	33,452	10,676	1,999	0,600
	4,500	6,867	52,718	55,170	56,550	33,442	10,603	1,815	0,596
	4,000	7,367	49,319	51,613	52,903	33,431	10,520	1,641	0,591

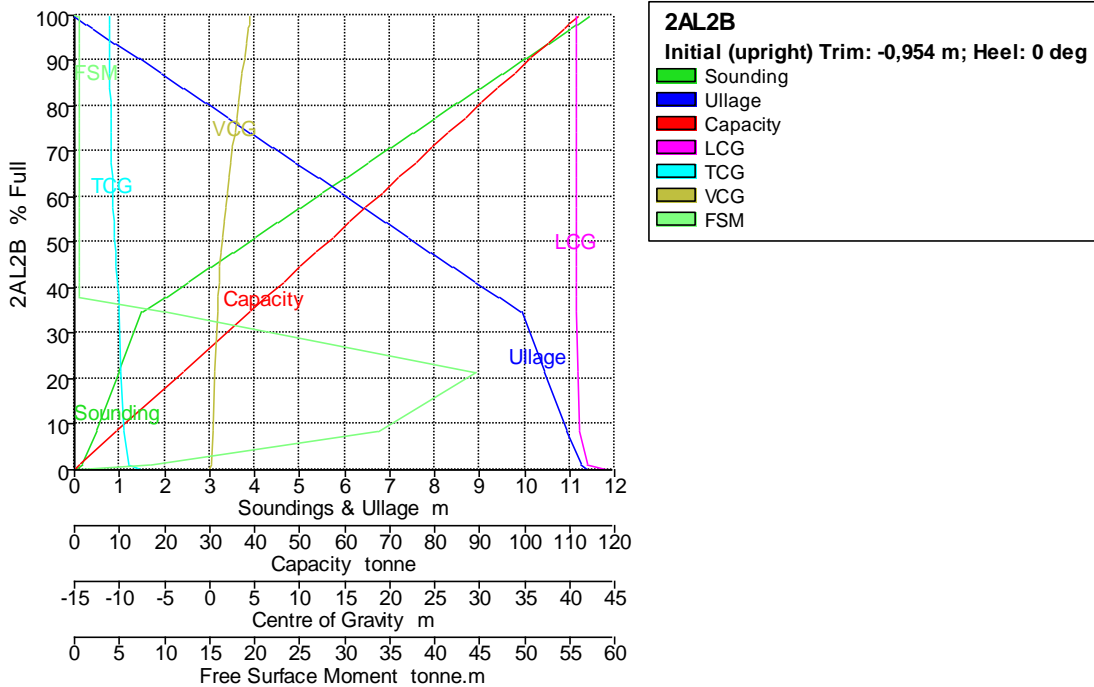
Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	3,500	7,867	45,932	48,069	49,270	33,417	10,425	1,478	0,582
	3,000	8,367	42,567	44,547	45,660	33,401	10,317	1,330	0,569
	2,500	8,867	39,235	41,060	42,086	33,382	10,191	1,201	0,548
	2,000	9,367	35,962	37,634	38,575	33,358	10,046	1,097	0,511
	1,500	9,867	32,814	34,341	35,199	33,327	9,881	1,025	0,433
	1,000	10,367	17,063	17,857	18,303	34,198	9,762	0,758	44,261
	0,500	10,867	4,577	4,790	4,910	35,254	9,503	0,450	21,225
	0,240	11,127	1,000	1,047	1,073	35,994	9,152	0,289	7,157
	0,000	11,367	0,000	0,000	0,000	37,173	5,335	0,133	0,000

Tank Calibrations - 2AL2B

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = -0,954 m (+ve by stern); Heel = 0 deg

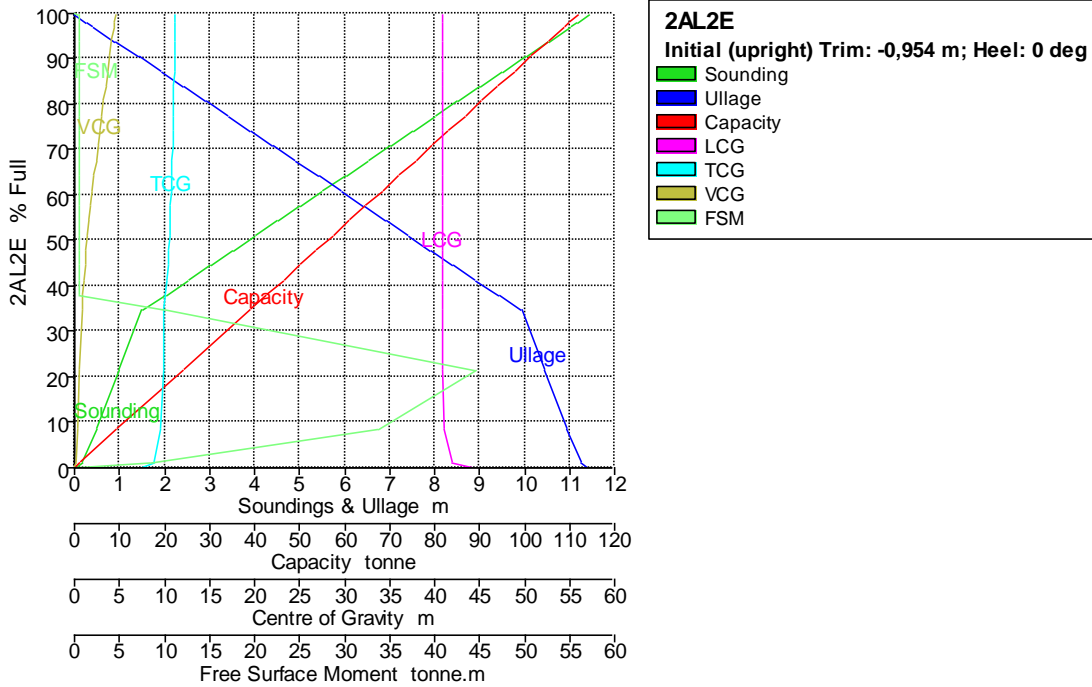


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL2B	11,435	0,000	100,000	109,360	112,094	40,811	-11,162	4,554	0,000
	11,435	0,000	99,764	109,102	111,830	40,814	-11,160	4,538	0,605
	11,165	0,269	98,000	107,173	109,852	40,814	-11,149	4,416	0,605
	11,150	0,285	97,900	107,063	109,740	40,814	-11,148	4,409	0,605
	11,000	0,435	96,917	105,989	108,639	40,814	-11,141	4,341	0,605
	10,500	0,935	93,644	102,409	104,969	40,815	-11,118	4,116	0,605
	10,000	1,435	90,370	98,829	101,299	40,816	-11,093	3,892	0,605
	9,500	1,935	87,095	95,248	97,629	40,816	-11,066	3,671	0,605
	9,000	2,435	83,820	91,666	93,958	40,817	-11,037	3,452	0,606
	8,500	2,935	80,545	88,084	90,286	40,818	-11,006	3,235	0,606
	8,000	3,435	77,269	84,501	86,613	40,819	-10,972	3,021	0,607
	7,500	3,935	73,991	80,917	82,940	40,819	-10,935	2,811	0,607
	7,000	4,435	70,713	77,332	79,265	40,820	-10,895	2,604	0,608

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	6,500	4,935	67,433	73,744	75,588	40,821	-10,850	2,400	0,609
	6,000	5,435	64,152	70,156	71,910	40,822	-10,801	2,202	0,609
	5,500	5,935	60,870	66,568	68,232	40,823	-10,747	2,009	0,609
	5,000	6,435	57,589	62,979	64,554	40,825	-10,687	1,823	0,609
	4,500	6,935	54,308	59,391	60,876	40,826	-10,619	1,644	0,609
	4,000	7,435	51,029	55,805	57,200	40,827	-10,543	1,475	0,607
	3,500	7,935	47,753	52,222	53,528	40,829	-10,456	1,317	0,605
	3,000	8,435	44,483	48,647	49,863	40,831	-10,357	1,173	0,600
	2,500	8,935	41,227	45,086	46,213	40,833	-10,243	1,046	0,590
	2,000	9,435	37,996	41,553	42,592	40,835	-10,110	0,941	0,571
	1,500	9,935	34,815	38,073	39,025	40,838	-9,957	0,864	10,070
	1,000	10,435	21,550	23,567	24,156	40,900	-9,848	0,616	44,652
	0,500	10,935	8,270	9,044	9,271	41,036	-9,574	0,347	33,603
	0,161	11,274	1,000	1,094	1,121	41,951	-8,931	0,155	8,286
	0,000	11,435	0,000	0,000	0,000	44,374	-7,340	0,065	0,000

Tank Calibrations - 2AL2E

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL2E	11,435	0,000	100,000	109,360	112,094	40,811	11,162	4,554	0,000
	11,435	0,000	99,764	109,102	111,830	40,814	11,160	4,538	0,605
	11,165	0,269	98,000	107,173	109,852	40,814	11,149	4,416	0,605
	11,150	0,285	97,900	107,063	109,740	40,814	11,148	4,409	0,605
	11,000	0,435	96,917	105,989	108,639	40,814	11,141	4,341	0,605
	10,500	0,935	93,644	102,409	104,969	40,815	11,118	4,116	0,605
	10,000	1,435	90,370	98,829	101,299	40,816	11,093	3,892	0,605

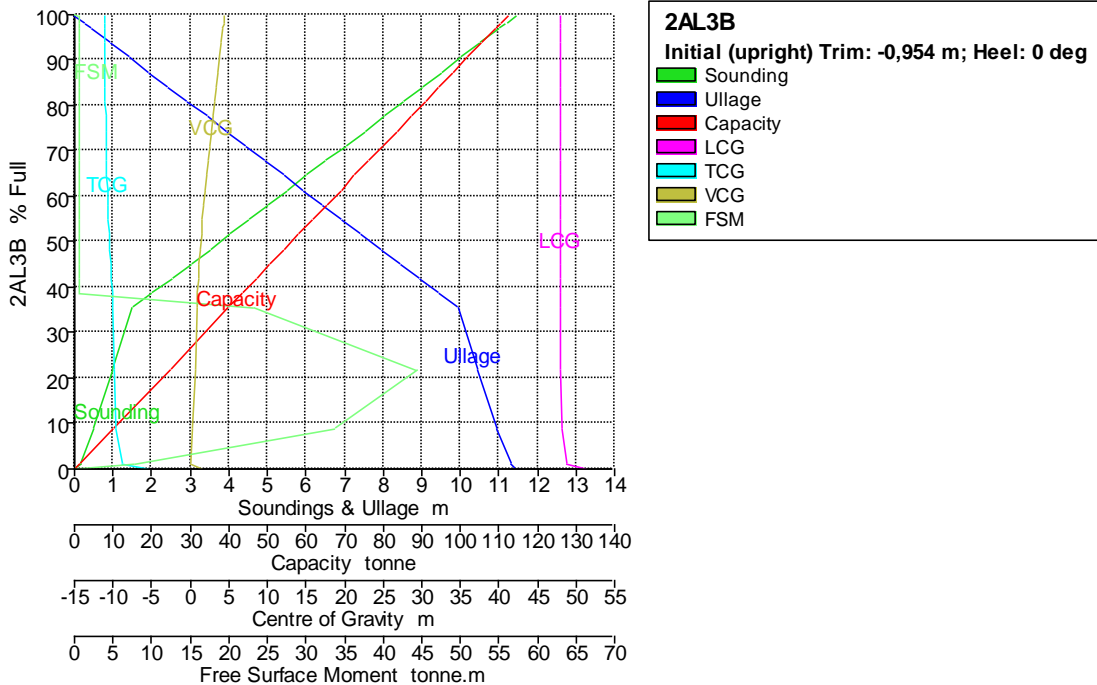
Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	9,500	1,935	87,095	95,248	97,629	40,816	11,066	3,671	0,605
	9,000	2,435	83,820	91,666	93,958	40,817	11,037	3,452	0,606
	8,500	2,935	80,545	88,084	90,286	40,818	11,006	3,235	0,606
	8,000	3,435	77,269	84,501	86,613	40,819	10,972	3,021	0,607
	7,500	3,935	73,991	80,917	82,940	40,819	10,935	2,811	0,607
	7,000	4,435	70,713	77,332	79,265	40,820	10,895	2,604	0,608
	6,500	4,935	67,433	73,744	75,588	40,821	10,850	2,400	0,609
	6,000	5,435	64,152	70,156	71,910	40,822	10,801	2,202	0,609
	5,500	5,935	60,870	66,568	68,232	40,823	10,747	2,009	0,609
	5,000	6,435	57,589	62,979	64,554	40,825	10,687	1,823	0,609
	4,500	6,935	54,308	59,391	60,876	40,826	10,619	1,644	0,609
	4,000	7,435	51,029	55,805	57,200	40,827	10,543	1,475	0,607
	3,500	7,935	47,753	52,222	53,528	40,829	10,456	1,317	0,605
	3,000	8,435	44,483	48,647	49,863	40,831	10,357	1,173	0,600
	2,500	8,935	41,227	45,086	46,213	40,833	10,243	1,046	0,590
	2,000	9,435	37,996	41,553	42,592	40,835	10,110	0,941	0,571
	1,500	9,935	34,815	38,073	39,025	40,838	9,957	0,864	10,070
	1,000	10,435	21,550	23,567	24,156	40,900	9,848	0,616	44,652
	0,500	10,935	8,270	9,044	9,271	41,036	9,574	0,347	33,603
	0,161	11,274	1,000	1,094	1,121	41,951	8,931	0,155	8,286
	0,000	11,435	0,000	0,000	0,000	44,374	7,340	0,065	0,000

Tank Calibrations - 2AL3B

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL3B	11,451	0,000	100,000	109,720	112,463	47,990	-11,146	4,512	0,000

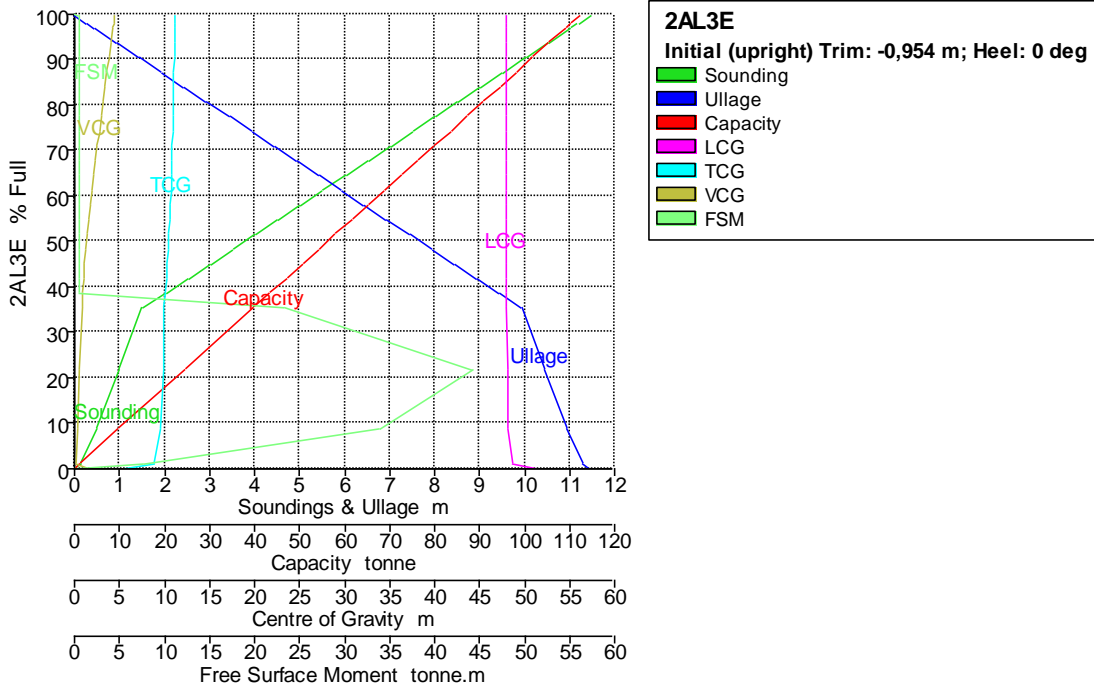
Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	11,451	0,000	99,776	109,474	112,211	47,993	-11,145	4,497	0,586
	11,177	0,274	98,000	107,525	110,213	47,993	-11,133	4,373	0,592
	11,162	0,290	97,900	107,415	110,101	47,993	-11,132	4,366	0,592
	11,000	0,451	96,852	106,265	108,922	47,993	-11,125	4,293	0,592
	10,500	0,951	93,611	102,710	105,277	47,993	-11,101	4,069	0,593
	10,000	1,451	90,370	99,154	101,633	47,993	-11,076	3,847	0,593
	9,500	1,951	87,129	95,598	97,988	47,993	-11,049	3,627	0,593
	9,000	2,451	83,887	92,041	94,342	47,993	-11,020	3,409	0,593
	8,500	2,951	80,645	88,483	90,695	47,993	-10,988	3,193	0,594
	8,000	3,451	77,402	84,925	87,048	47,993	-10,954	2,981	0,594
	7,500	3,951	74,157	81,365	83,399	47,994	-10,917	2,772	0,595
	7,000	4,451	70,911	77,803	79,748	47,994	-10,876	2,566	0,597
	6,500	4,951	67,662	74,238	76,094	47,994	-10,832	2,364	0,598
	6,000	5,451	64,412	70,673	72,439	47,995	-10,783	2,168	0,598
	5,500	5,951	61,162	67,107	68,785	47,995	-10,729	1,977	0,598
	5,000	6,451	57,913	63,541	65,130	47,996	-10,668	1,792	0,598
	4,500	6,951	54,663	59,976	61,476	47,997	-10,601	1,615	0,597
	4,000	7,451	51,415	56,412	57,823	47,998	-10,525	1,448	0,596
	3,500	7,951	48,170	52,852	54,173	47,999	-10,439	1,292	0,594
	3,000	8,451	44,932	49,299	50,531	48,000	-10,340	1,150	0,589
	2,500	8,951	41,706	45,760	46,904	48,001	-10,227	1,025	0,579
	2,000	9,451	38,508	42,250	43,307	48,003	-10,097	0,922	0,559
	1,500	9,951	35,297	38,728	39,696	48,011	-9,948	0,846	23,306
	1,000	10,451	21,851	23,974	24,574	48,055	-9,841	0,592	44,314
	0,500	10,951	8,632	9,470	9,707	48,138	-9,574	0,324	33,754
	0,145	11,307	1,000	1,097	1,125	48,756	-8,881	0,124	7,678
	0,000	11,451	0,000	0,000	0,000	51,547	-5,349	1,685	0,000

Tank Calibrations - 2AL3E

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

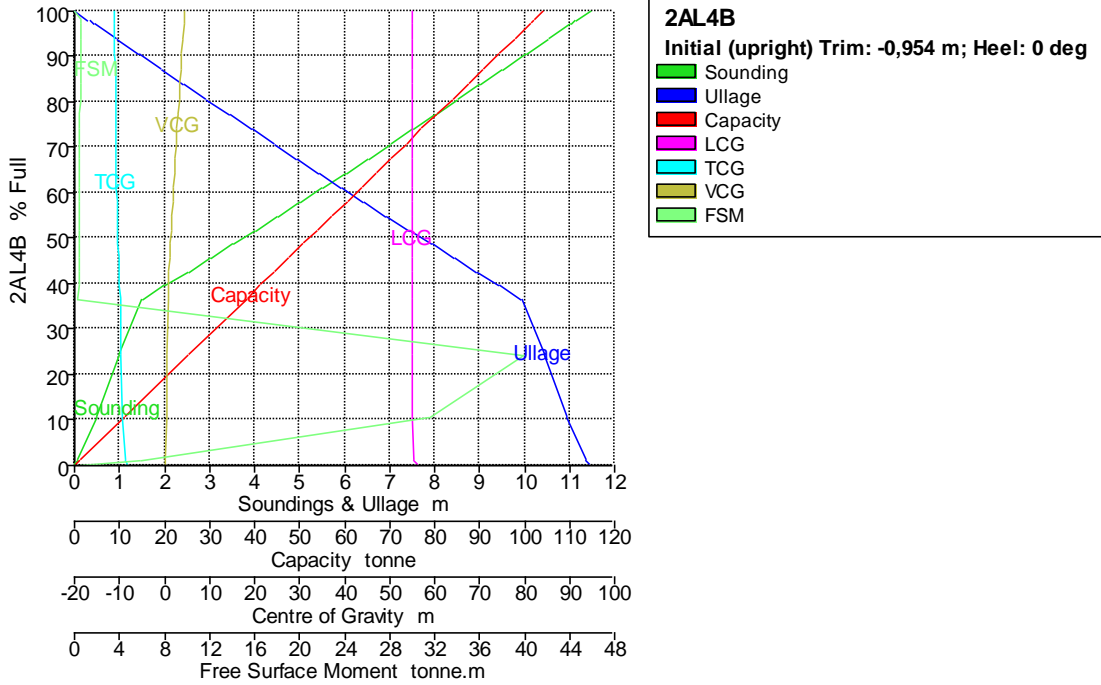
Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL3E	11,451	0,000	100,000	109,720	112,463	47,990	11,146	4,512	0,000
	11,451	0,000	99,776	109,474	112,211	47,993	11,145	4,497	0,586
	11,177	0,274	98,000	107,525	110,213	47,993	11,133	4,373	0,592
	11,162	0,290	97,900	107,415	110,101	47,993	11,132	4,366	0,592
	11,000	0,451	96,852	106,265	108,922	47,993	11,125	4,293	0,592
	10,500	0,951	93,611	102,710	105,277	47,993	11,101	4,069	0,593
	10,000	1,451	90,370	99,154	101,633	47,993	11,076	3,847	0,593
	9,500	1,951	87,129	95,598	97,988	47,993	11,049	3,627	0,593
	9,000	2,451	83,887	92,041	94,342	47,993	11,020	3,409	0,593
	8,500	2,951	80,645	88,483	90,695	47,993	10,988	3,193	0,594
	8,000	3,451	77,402	84,925	87,048	47,993	10,954	2,981	0,594
	7,500	3,951	74,157	81,365	83,399	47,994	10,917	2,772	0,595
	7,000	4,451	70,911	77,803	79,748	47,994	10,876	2,566	0,597
	6,500	4,951	67,662	74,238	76,094	47,994	10,832	2,364	0,598
	6,000	5,451	64,412	70,673	72,439	47,995	10,783	2,168	0,598
	5,500	5,951	61,162	67,107	68,785	47,995	10,729	1,977	0,598
	5,000	6,451	57,913	63,541	65,130	47,996	10,668	1,792	0,598
	4,500	6,951	54,663	59,976	61,476	47,997	10,601	1,615	0,597
	4,000	7,451	51,415	56,412	57,823	47,998	10,525	1,448	0,596
	3,500	7,951	48,170	52,852	54,173	47,999	10,439	1,292	0,594
	3,000	8,451	44,932	49,299	50,531	48,000	10,340	1,150	0,589
	2,500	8,951	41,706	45,760	46,904	48,001	10,227	1,025	0,579
	2,000	9,451	38,508	42,250	43,307	48,003	10,097	0,922	0,559
	1,500	9,951	35,297	38,728	39,696	48,011	9,948	0,846	23,306
	1,000	10,451	21,851	23,974	24,574	48,055	9,841	0,592	44,314
	0,500	10,951	8,632	9,470	9,707	48,138	9,574	0,324	33,754
	0,145	11,307	1,000	1,097	1,125	48,756	8,881	0,124	7,678
	0,000	11,451	0,000	0,000	0,000	51,547	5,349	1,685	0,000

Tank Calibrations - 2AL4B

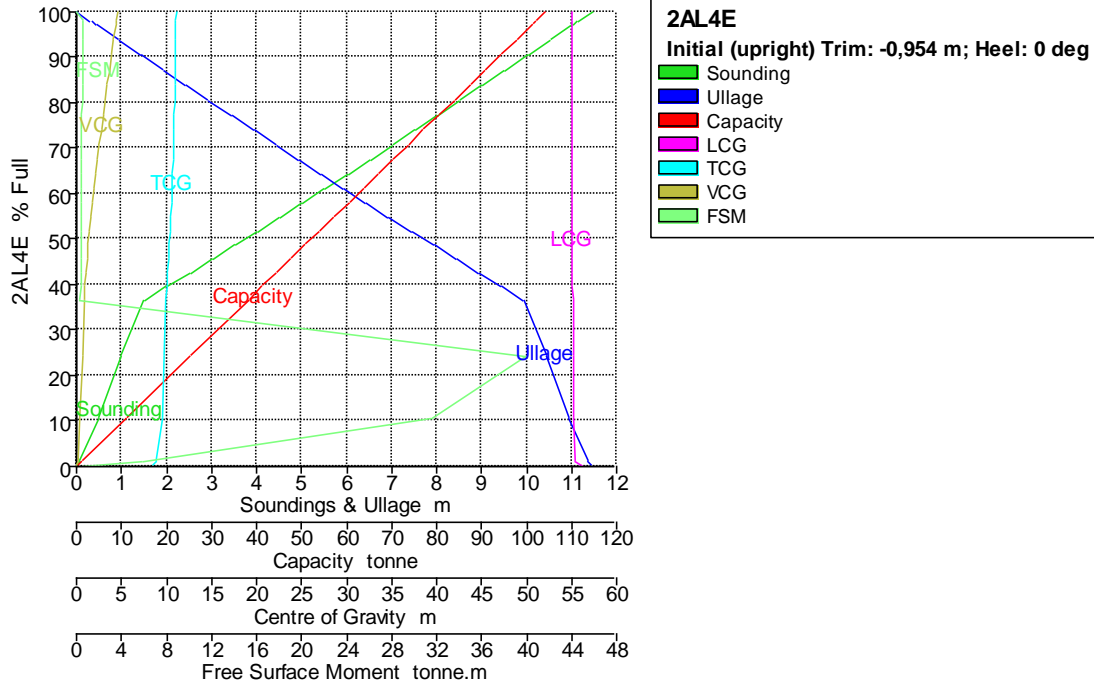
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL4B	11,451	0,000	100,000	101,645	104,187	55,101	-11,074	4,536	0,000
	11,451	0,000	100,000	101,645	104,186	55,101	-11,074	4,536	0,000
	11,121	0,330	98,000	99,612	102,103	55,103	-11,060	4,397	0,538
	11,106	0,345	97,900	99,511	101,999	55,103	-11,059	4,390	0,537
	11,000	0,451	97,182	98,781	101,250	55,102	-11,053	4,341	0,536
	10,500	0,951	93,806	95,350	97,734	55,100	-11,027	4,107	0,531
	10,000	1,451	90,443	91,932	94,230	55,098	-10,999	3,875	0,525
	9,500	1,951	87,094	88,527	90,740	55,096	-10,969	3,646	0,519
	9,000	2,451	83,760	85,139	87,267	55,094	-10,937	3,420	0,512
	8,500	2,951	80,444	81,767	83,812	55,093	-10,902	3,197	0,504
	8,000	3,451	77,147	78,417	80,377	55,091	-10,865	2,977	0,495
	7,500	3,951	73,875	75,091	76,968	55,090	-10,824	2,762	0,485
	7,000	4,451	70,633	71,796	73,591	55,090	-10,781	2,552	0,471
	6,500	4,951	67,435	68,544	70,258	55,090	-10,735	2,349	0,455
	6,000	5,451	64,262	65,319	66,952	55,091	-10,684	2,152	0,450
	5,500	5,951	61,104	62,109	63,662	55,092	-10,629	1,962	0,445
	5,000	6,451	57,959	58,913	60,386	55,094	-10,567	1,779	0,440
	4,500	6,951	54,830	55,732	57,126	55,097	-10,500	1,605	0,435
	4,000	7,451	51,717	52,568	53,883	55,100	-10,424	1,441	0,429
	3,500	7,951	48,623	49,423	50,659	55,104	-10,340	1,289	0,422
	3,000	8,451	45,553	46,302	47,460	55,109	-10,245	1,151	0,412
	2,500	8,951	42,515	43,215	44,295	55,115	-10,139	1,031	0,398
	2,000	9,451	39,527	40,178	41,182	55,123	-10,018	0,932	0,376
	1,500	9,951	36,631	37,234	38,165	55,133	-9,883	0,861	0,332
	1,000	10,451	24,196	24,595	25,209	55,167	-9,774	0,635	39,925
	0,500	10,951	10,389	10,560	10,824	55,187	-9,539	0,366	31,446
	0,083	11,368	1,000	1,016	1,042	55,451	-8,777	0,129	5,819
	0,000	11,451	0,094	0,096	0,098	56,507	-8,326	0,085	0,434

Tank Calibrations - 2AL4E

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL4E	11,451	0,000	100,000	101,645	104,187	55,101	11,074	4,536	0,000
	11,451	0,000	100,000	101,645	104,186	55,101	11,074	4,536	0,000
	11,121	0,330	98,000	99,612	102,103	55,103	11,060	4,397	0,538
	11,106	0,345	97,900	99,511	101,999	55,103	11,059	4,390	0,537
	11,000	0,451	97,182	98,781	101,250	55,102	11,053	4,341	0,536
	10,500	0,951	93,806	95,350	97,734	55,100	11,027	4,107	0,531
	10,000	1,451	90,443	91,932	94,230	55,098	10,999	3,875	0,525
	9,500	1,951	87,094	88,527	90,740	55,096	10,969	3,646	0,519
	9,000	2,451	83,760	85,139	87,267	55,094	10,937	3,420	0,512
	8,500	2,951	80,444	81,767	83,812	55,093	10,902	3,197	0,504
	8,000	3,451	77,147	78,417	80,377	55,091	10,865	2,977	0,495
	7,500	3,951	73,875	75,091	76,968	55,090	10,824	2,762	0,485
	7,000	4,451	70,633	71,796	73,591	55,090	10,781	2,552	0,471
	6,500	4,951	67,435	68,544	70,258	55,090	10,735	2,349	0,455
	6,000	5,451	64,262	65,319	66,952	55,091	10,684	2,152	0,450
	5,500	5,951	61,104	62,109	63,662	55,092	10,629	1,962	0,445
	5,000	6,451	57,959	58,913	60,386	55,094	10,567	1,779	0,440
	4,500	6,951	54,830	55,732	57,126	55,097	10,500	1,605	0,435
	4,000	7,451	51,717	52,568	53,883	55,100	10,424	1,441	0,429
	3,500	7,951	48,623	49,423	50,659	55,104	10,340	1,289	0,422
	3,000	8,451	45,553	46,302	47,460	55,109	10,245	1,151	0,412
	2,500	8,951	42,515	43,215	44,295	55,115	10,139	1,031	0,398
	2,000	9,451	39,527	40,178	41,182	55,123	10,018	0,932	0,376
	1,500	9,951	36,631	37,234	38,165	55,133	9,883	0,861	0,332
	1,000	10,451	24,196	24,595	25,209	55,167	9,774	0,635	39,925
	0,500	10,951	10,389	10,560	10,824	55,187	9,539	0,366	31,446

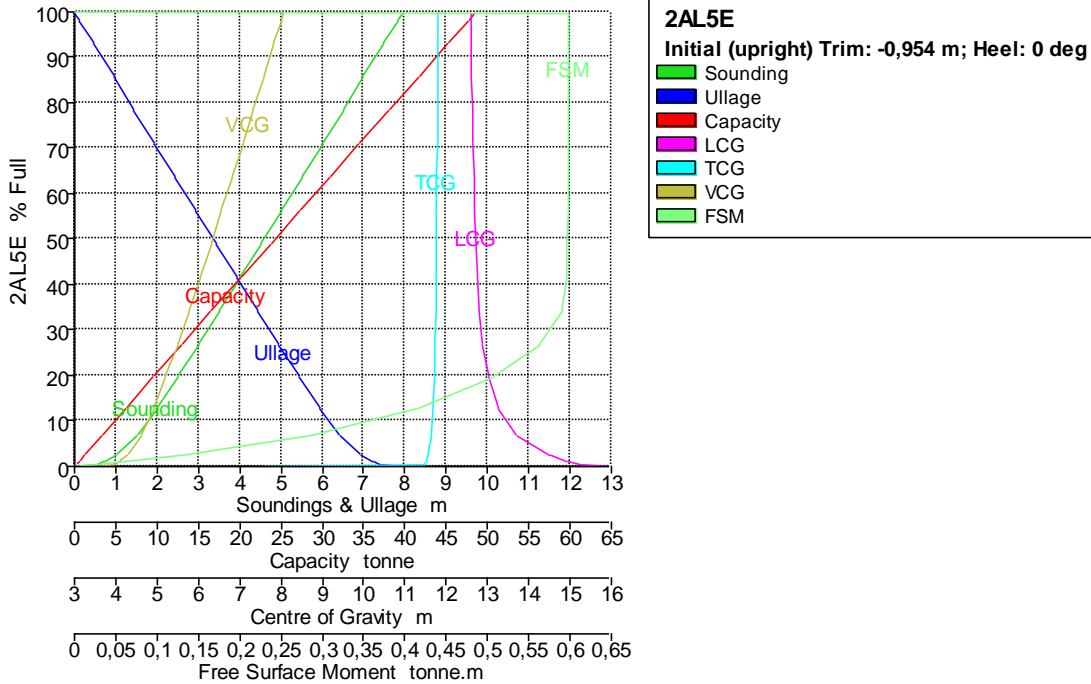
Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,083	11,368	1,000	1,016	1,042	55,451	8,777	0,129	5,819
	0,000	11,451	0,094	0,096	0,098	56,507	8,326	0,085	0,434

Tank Calibrations - 2AL5E

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = -0,954 m (+ve by stern); Heel = 0 deg

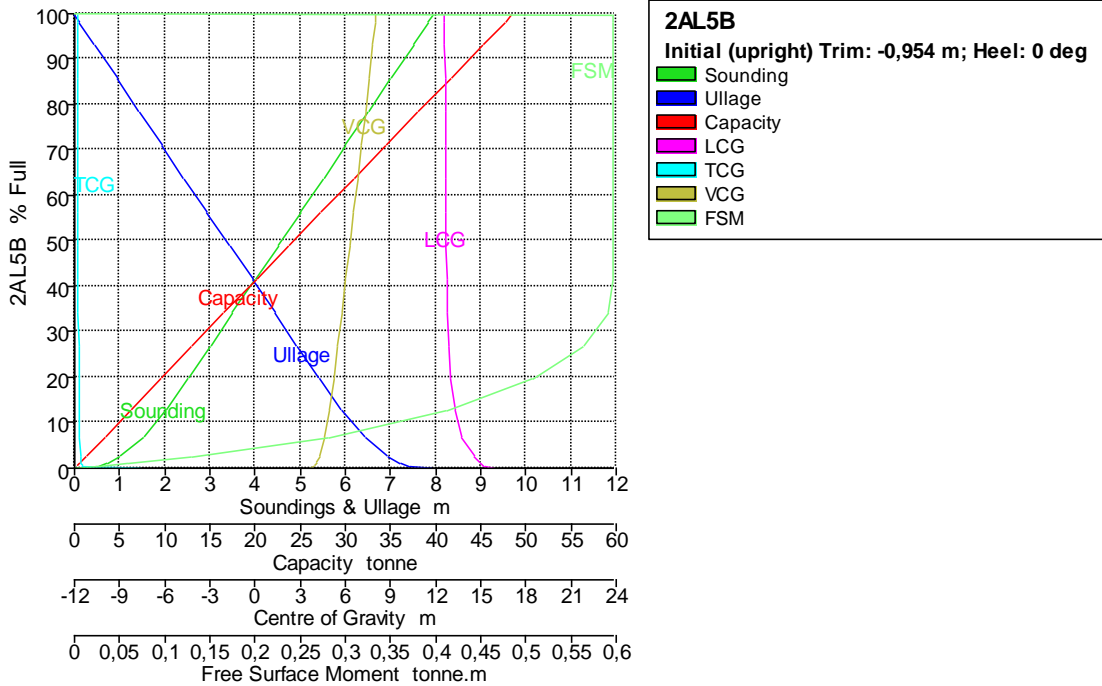


Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL5E	7,945	0,000	100,000	47,427	48,613	12,599	11,787	8,078	0,000
	7,945	0,000	99,484	47,182	48,362	12,605	11,787	8,060	0,597
	7,845	0,101	98,000	46,479	47,641	12,607	11,787	8,009	0,597
	7,838	0,107	97,900	46,431	47,592	12,607	11,787	8,006	0,597
	7,500	0,445	92,914	44,067	45,168	12,613	11,785	7,835	0,597
	7,000	0,945	85,537	40,568	41,582	12,623	11,783	7,582	0,597
	6,500	1,445	78,161	37,070	37,996	12,634	11,781	7,328	0,597
	6,000	1,945	70,784	33,571	34,410	12,648	11,778	7,074	0,597
	5,500	2,445	63,407	30,072	30,824	12,665	11,775	6,818	0,597
	5,000	2,945	56,031	26,574	27,238	12,687	11,770	6,561	0,597
	4,500	3,445	48,655	23,076	23,653	12,716	11,764	6,303	0,597
	4,000	3,945	41,280	19,578	20,068	12,754	11,756	6,040	0,596
	3,500	4,445	33,913	16,084	16,486	12,809	11,745	5,773	0,591
	3,000	4,945	26,611	12,621	12,936	12,892	11,729	5,500	0,564
	2,500	5,445	19,491	9,244	9,475	13,024	11,706	5,218	0,507
	2,000	5,945	12,744	6,044	6,195	13,257	11,674	4,924	0,412
	1,500	6,445	6,742	3,197	3,277	13,733	11,631	4,607	0,281
	1,000	6,945	2,429	1,152	1,181	14,524	11,579	4,264	0,128
	0,711	7,234	1,000	0,474	0,486	14,975	11,537	4,063	0,059
	0,500	7,445	0,390	0,185	0,190	15,292	11,493	3,914	0,024

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,000	7,945	0,000	0,000	0,000	15,982	7,540	3,555	0,000

Tank Calibrations - 2AL5B

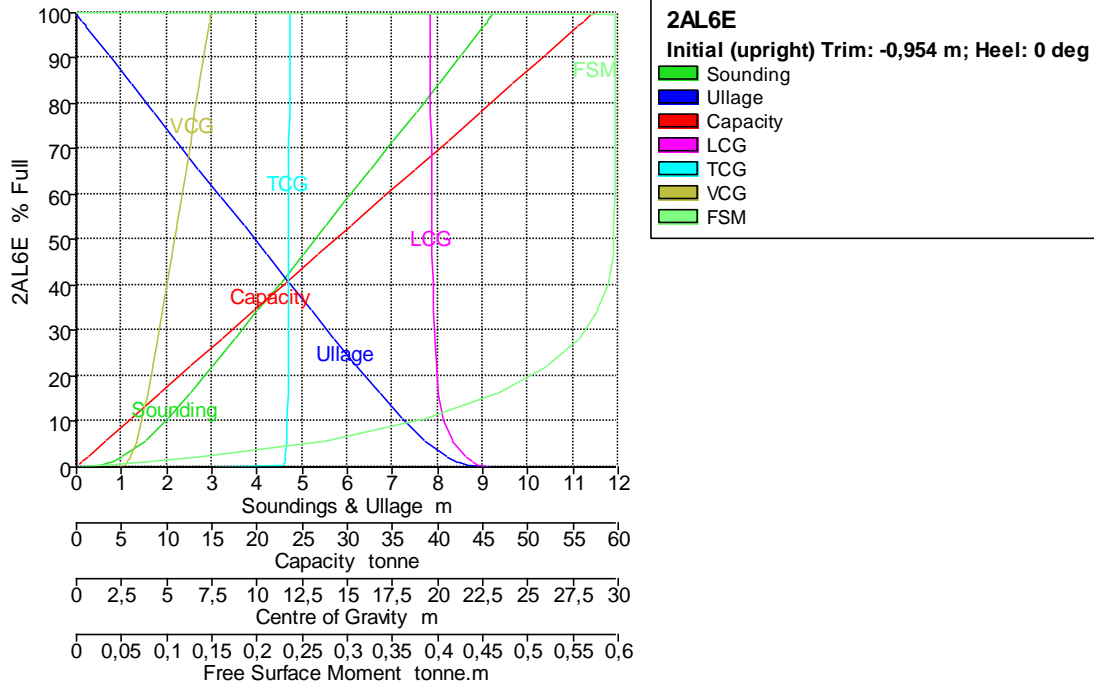
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL5B	7,945	0,000	100,000	47,427	48,613	12,599	-11,787	8,078	0,000
	7,945	0,000	99,484	47,182	48,362	12,605	-11,787	8,060	0,597
	7,845	0,101	98,000	46,479	47,641	12,607	-11,787	8,009	0,597
	7,838	0,107	97,900	46,431	47,592	12,607	-11,787	8,006	0,597
	7,500	0,445	92,914	44,067	45,168	12,613	-11,785	7,835	0,597
	7,000	0,945	85,537	40,568	41,582	12,623	-11,783	7,582	0,597
	6,500	1,445	78,161	37,070	37,996	12,634	-11,781	7,328	0,597
	6,000	1,945	70,784	33,571	34,410	12,648	-11,778	7,074	0,597
	5,500	2,445	63,407	30,072	30,824	12,665	-11,775	6,818	0,597
	5,000	2,945	56,031	26,574	27,238	12,687	-11,770	6,561	0,597
	4,500	3,445	48,655	23,076	23,653	12,716	-11,764	6,303	0,597
	4,000	3,945	41,280	19,578	20,068	12,754	-11,756	6,040	0,596
	3,500	4,445	33,913	16,084	16,486	12,809	-11,745	5,773	0,591
	3,000	4,945	26,611	12,621	12,936	12,892	-11,729	5,500	0,564
	2,500	5,445	19,491	9,244	9,475	13,024	-11,706	5,218	0,507
	2,000	5,945	12,744	6,044	6,195	13,257	-11,674	4,924	0,412
	1,500	6,445	6,742	3,197	3,277	13,733	-11,631	4,607	0,281
	1,000	6,945	2,429	1,152	1,181	14,524	-11,579	4,264	0,128
	0,711	7,234	1,000	0,474	0,486	14,975	-11,537	4,063	0,059
	0,500	7,445	0,390	0,185	0,190	15,292	-11,493	3,914	0,024
	0,000	7,945	0,000	0,000	0,000	15,982	-7,540	3,555	0,000

Tank Calibrations - 2AL6E

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



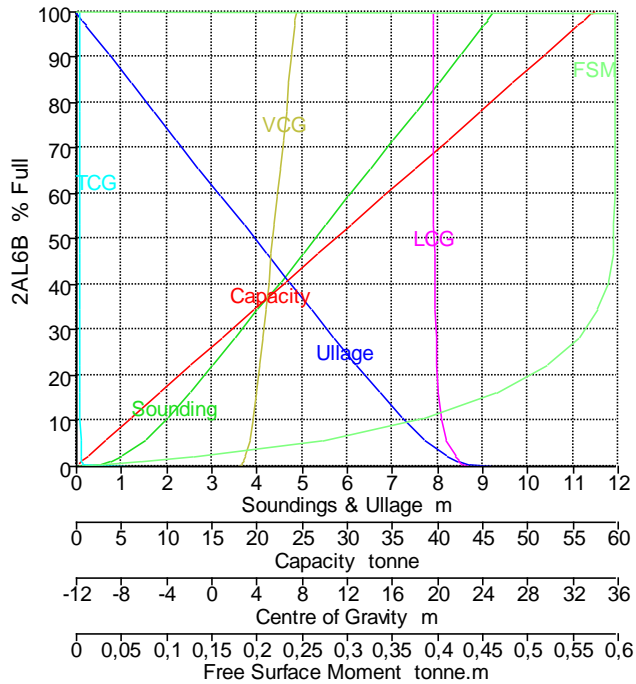
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL6E	9,227	0,000	100,000	55,877	57,274	19,593	11,787	7,464	0,000
	9,227	0,000	99,562	55,632	57,023	19,598	11,787	7,447	0,596
	9,102	0,125	98,000	54,759	56,128	19,600	11,787	7,384	0,596
	9,094	0,133	97,900	54,704	56,071	19,600	11,787	7,380	0,596
	9,000	0,227	96,725	54,047	55,398	19,601	11,787	7,332	0,596
	8,500	0,727	90,468	50,551	51,815	19,608	11,785	7,079	0,596
	8,000	1,227	84,211	47,055	48,231	19,616	11,783	6,826	0,596
	7,500	1,727	77,953	43,558	44,647	19,625	11,781	6,572	0,596
	7,000	2,227	71,696	40,061	41,063	19,636	11,779	6,318	0,596
	6,500	2,727	65,438	36,565	37,479	19,649	11,776	6,062	0,596
	6,000	3,227	59,182	33,069	33,896	19,665	11,773	5,806	0,596
	5,500	3,727	52,926	29,574	30,313	19,685	11,768	5,548	0,595
	5,000	4,227	46,673	26,080	26,732	19,710	11,763	5,288	0,594
	4,500	4,727	40,429	22,590	23,155	19,742	11,756	5,025	0,590
	4,000	5,227	34,213	19,117	19,595	19,785	11,747	4,759	0,578
	3,500	5,727	28,057	15,677	16,069	19,846	11,736	4,490	0,556
	3,000	6,227	22,008	12,298	12,605	19,934	11,720	4,215	0,520
	2,500	6,727	16,139	9,018	9,244	20,073	11,699	3,933	0,465
	2,000	7,227	10,578	5,911	6,058	20,319	11,671	3,638	0,383
	1,500	7,727	5,616	3,138	3,216	20,817	11,633	3,321	0,271
	1,000	8,227	2,067	1,155	1,184	21,576	11,586	2,979	0,129
	0,752	8,475	1,000	0,559	0,573	21,945	11,551	2,807	0,070
	0,500	8,727	0,345	0,193	0,198	22,309	11,503	2,631	0,026
	0,000	9,227	0,000	0,000	0,000	22,932	7,540	2,273	0,000

Tank Calibrations - 2AL6B

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = -0,954 m (+ve by stern); Heel = 0 deg



2AL6B
Initial (upright) Trim: -0,954 m; Heel: 0 deg

- Sounding
- Ullage
- Capacity
- LCG
- TCG
- VCG
- FSM

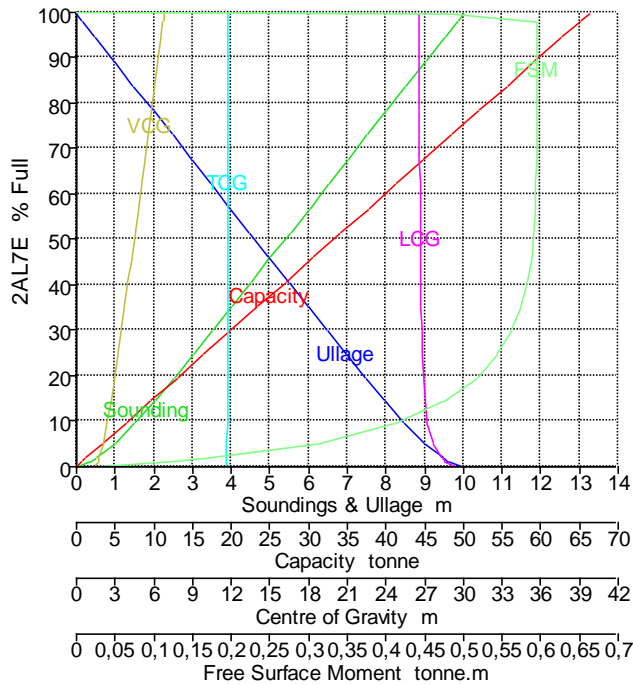
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL6B	9,227	0,000	100,000	55,877	57,274	19,593	-11,787	7,464	0,000
	9,227	0,000	99,562	55,632	57,023	19,598	-11,787	7,447	0,596
	9,102	0,125	98,000	54,759	56,128	19,600	-11,787	7,384	0,596
	9,094	0,133	97,900	54,704	56,071	19,600	-11,787	7,380	0,596
	9,000	0,227	96,725	54,047	55,398	19,601	-11,787	7,332	0,596
	8,500	0,727	90,468	50,551	51,815	19,608	-11,785	7,079	0,596
	8,000	1,227	84,211	47,055	48,231	19,616	-11,783	6,826	0,596
	7,500	1,727	77,953	43,558	44,647	19,625	-11,781	6,572	0,596
	7,000	2,227	71,696	40,061	41,063	19,636	-11,779	6,318	0,596
	6,500	2,727	65,438	36,565	37,479	19,649	-11,776	6,062	0,596
	6,000	3,227	59,182	33,069	33,896	19,665	-11,773	5,806	0,596
	5,500	3,727	52,926	29,574	30,313	19,685	-11,768	5,548	0,595
	5,000	4,227	46,673	26,080	26,732	19,710	-11,763	5,288	0,594
	4,500	4,727	40,429	22,590	23,155	19,742	-11,756	5,025	0,590
	4,000	5,227	34,213	19,117	19,595	19,785	-11,747	4,759	0,578
	3,500	5,727	28,057	15,677	16,069	19,846	-11,736	4,490	0,556
	3,000	6,227	22,008	12,298	12,605	19,934	-11,720	4,215	0,520
	2,500	6,727	16,139	9,018	9,244	20,073	-11,699	3,933	0,465
	2,000	7,227	10,578	5,911	6,058	20,319	-11,671	3,638	0,383
	1,500	7,727	5,616	3,138	3,216	20,817	-11,633	3,321	0,271
	1,000	8,227	2,067	1,155	1,184	21,576	-11,586	2,979	0,129
	0,752	8,475	1,000	0,559	0,573	21,945	-11,551	2,807	0,070
	0,500	8,727	0,345	0,193	0,198	22,309	-11,503	2,631	0,026
	0,000	9,227	0,000	0,000	0,000	22,932	-7,540	2,273	0,000

Tank Calibrations - 2AL7E

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = -0,954 m (+ve by stern); Heel = 0 deg



2AL7E

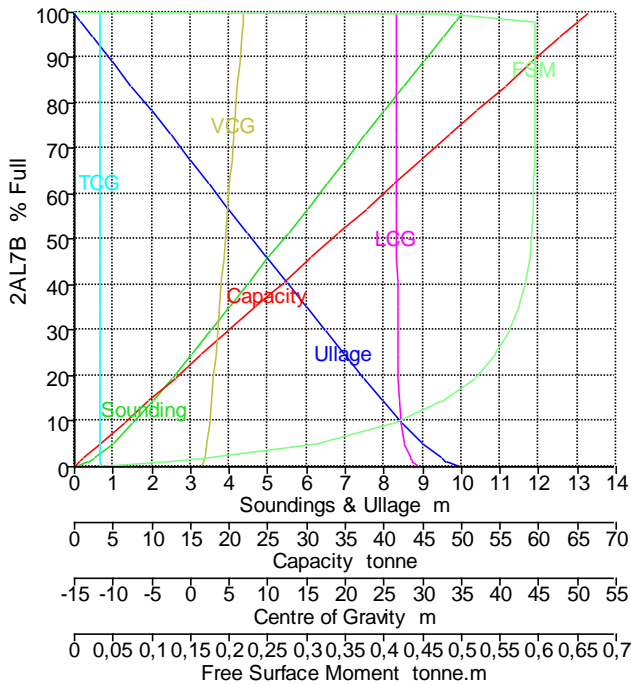
Initial (upright) Trim: -0,954 m; Heel: 0 deg

- Sounding
- Ullage
- Capacity
- LCG
- TCG
- VCG
- FSM

Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL7E	10,000	0,000	100,000	64,785	66,405	26,574	11,791	6,826	0,000
	10,000	0,000	99,758	64,628	66,244	26,578	11,791	6,815	0,485
	9,836	0,164	98,000	63,490	65,077	26,580	11,791	6,733	0,594
	9,826	0,174	97,900	63,425	65,010	26,580	11,790	6,728	0,594
	9,500	0,500	94,382	61,145	62,674	26,583	11,790	6,563	0,594
	9,000	1,000	88,990	57,652	59,093	26,588	11,789	6,311	0,595
	8,500	1,500	83,597	54,158	55,512	26,594	11,787	6,058	0,595
	8,000	2,000	78,204	50,665	51,931	26,600	11,786	5,805	0,595
	7,500	2,500	72,811	47,171	48,350	26,608	11,784	5,552	0,595
	7,000	3,000	67,419	43,677	44,769	26,617	11,783	5,297	0,594
	6,500	3,500	62,028	40,185	41,189	26,627	11,780	5,043	0,594
	6,000	4,000	56,638	36,693	37,611	26,639	11,778	4,787	0,593
	5,500	4,500	51,253	33,205	34,035	26,653	11,775	4,531	0,591
	5,000	5,000	45,877	29,721	30,464	26,672	11,771	4,273	0,588
	4,500	5,500	40,511	26,245	26,901	26,694	11,766	4,014	0,583
	4,000	6,000	35,165	22,782	23,351	26,723	11,761	3,753	0,575
	3,500	6,500	29,851	19,339	19,823	26,761	11,753	3,490	0,562
	3,000	7,000	24,587	15,929	16,327	26,813	11,744	3,225	0,544
	2,500	7,500	19,398	12,567	12,881	26,889	11,732	2,956	0,516
	2,000	8,000	14,328	9,282	9,514	27,009	11,716	2,682	0,474
	1,500	8,500	9,459	6,128	6,281	27,221	11,692	2,399	0,409
	1,000	9,000	5,013	3,248	3,329	27,656	11,661	2,098	0,309
	0,500	9,500	1,692	1,096	1,124	28,359	11,626	1,786	0,162
	0,345	9,655	1,000	0,648	0,664	28,572	11,611	1,693	0,117
	0,000	10,000	0,009	0,006	0,006	29,559	11,556	1,526	0,026

Tank Calibrations - 2AL7B

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



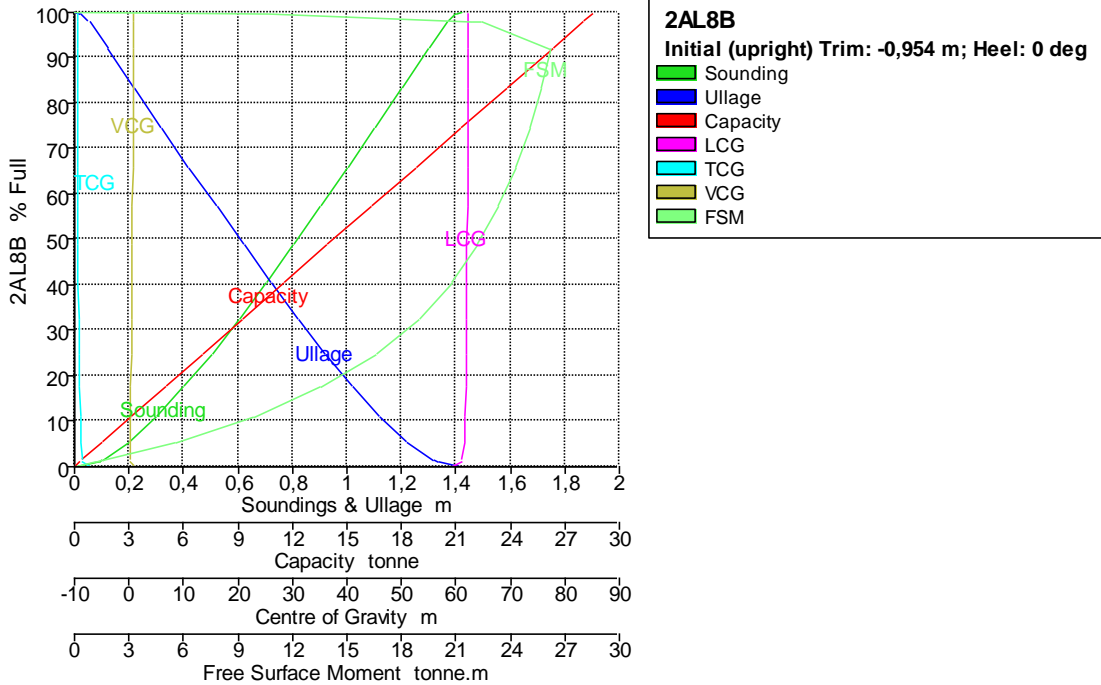
2AL7B
 Initial (upright) Trim: -0,954 m; Heel: 0 deg

- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL7B	10,000	0,000	100,000	64,785	66,405	26,574	-11,791	6,826	0,000
	10,000	0,000	99,758	64,628	66,244	26,578	-11,791	6,815	0,485
	9,836	0,164	98,000	63,490	65,077	26,580	-11,791	6,733	0,594
	9,826	0,174	97,900	63,425	65,010	26,580	-11,790	6,728	0,594
	9,500	0,500	94,382	61,145	62,674	26,583	-11,790	6,563	0,594
	9,000	1,000	88,990	57,652	59,093	26,588	-11,789	6,311	0,595
	8,500	1,500	83,597	54,158	55,512	26,594	-11,787	6,058	0,595
	8,000	2,000	78,204	50,665	51,931	26,600	-11,786	5,805	0,595
	7,500	2,500	72,811	47,171	48,350	26,608	-11,784	5,552	0,595
	7,000	3,000	67,419	43,677	44,769	26,617	-11,783	5,297	0,594
	6,500	3,500	62,028	40,185	41,189	26,627	-11,780	5,043	0,594
	6,000	4,000	56,638	36,693	37,611	26,639	-11,778	4,787	0,593
	5,500	4,500	51,253	33,205	34,035	26,653	-11,775	4,531	0,591
	5,000	5,000	45,877	29,721	30,464	26,672	-11,771	4,273	0,588
	4,500	5,500	40,511	26,245	26,901	26,694	-11,766	4,014	0,583
	4,000	6,000	35,165	22,782	23,351	26,723	-11,761	3,753	0,575
	3,500	6,500	29,851	19,339	19,823	26,761	-11,753	3,490	0,562
	3,000	7,000	24,587	15,929	16,327	26,813	-11,744	3,225	0,544
	2,500	7,500	19,398	12,567	12,881	26,889	-11,732	2,956	0,516
	2,000	8,000	14,328	9,282	9,514	27,009	-11,716	2,682	0,474
	1,500	8,500	9,459	6,128	6,281	27,221	-11,692	2,399	0,409
	1,000	9,000	5,013	3,248	3,329	27,656	-11,661	2,098	0,309
	0,500	9,500	1,692	1,096	1,124	28,359	-11,626	1,786	0,162
	0,345	9,655	1,000	0,648	0,664	28,572	-11,611	1,693	0,117
	0,000	10,000	0,009	0,006	0,006	29,559	-11,556	1,526	0,026

Tank Calibrations - 2AL8B

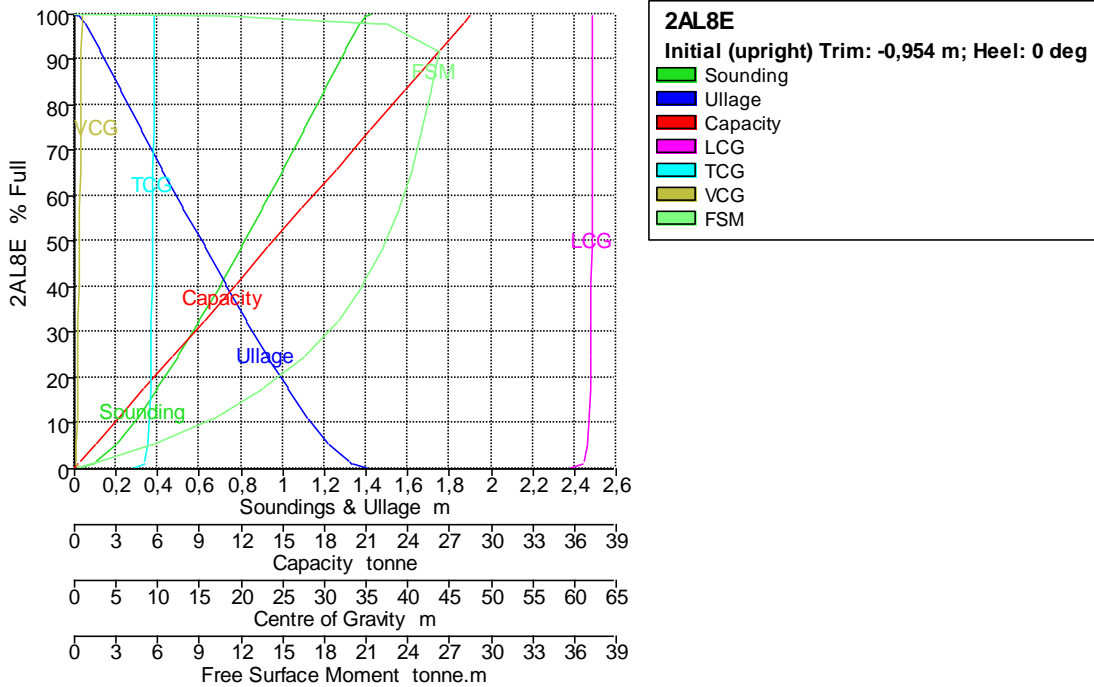
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL8B	1,424	0,000	100,000	27,880	28,577	62,096	-9,546	0,907	0,000
	1,400	0,024	99,611	27,772	28,466	62,106	-9,545	0,904	10,716
	1,369	0,055	98,000	27,323	28,006	62,127	-9,540	0,895	21,891
	1,368	0,056	97,900	27,295	27,977	62,128	-9,540	0,894	22,491
	1,300	0,124	92,011	25,653	26,294	62,127	-9,527	0,859	26,228
	1,200	0,224	83,154	23,184	23,763	62,117	-9,505	0,806	25,680
	1,100	0,324	74,370	20,735	21,253	62,106	-9,480	0,752	25,045
	1,000	0,424	65,673	18,310	18,768	62,093	-9,452	0,698	24,292
	0,900	0,524	57,084	15,915	16,313	62,076	-9,417	0,644	23,372
	0,800	0,624	48,633	13,559	13,898	62,056	-9,377	0,589	22,228
	0,700	0,724	40,360	11,253	11,534	62,030	-9,327	0,533	20,781
	0,600	0,824	32,327	9,013	9,238	61,995	-9,265	0,476	18,933
	0,500	0,924	24,621	6,865	7,036	61,949	-9,187	0,419	16,565
	0,400	1,024	17,378	4,845	4,966	61,881	-9,085	0,360	13,552
	0,300	1,124	10,809	3,014	3,089	61,773	-8,949	0,300	9,820
	0,200	1,224	5,264	1,468	1,504	61,574	-8,761	0,236	5,524
	0,100	1,324	1,347	0,375	0,385	61,082	-8,492	0,167	1,514
	0,087	1,337	1,000	0,279	0,286	60,967	-8,447	0,157	1,099
	0,000	1,424	0,000	0,000	0,000	59,070	-6,780	0,823	0,000

Tank Calibrations - 2AL8E

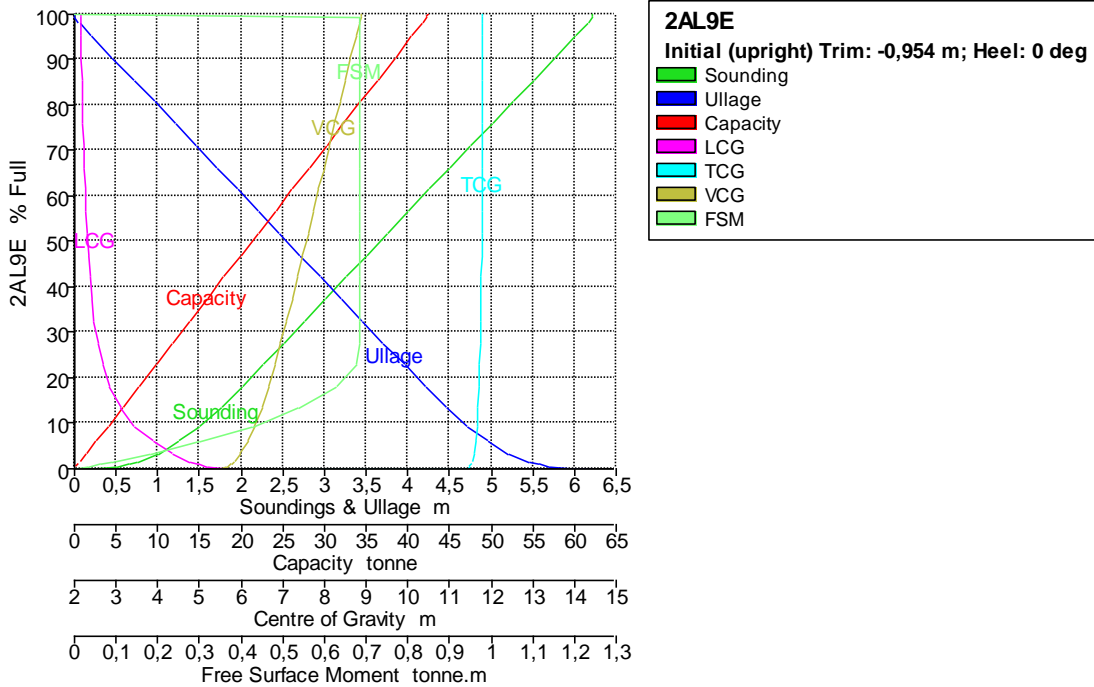
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL8E	1,424	0,000	100,000	27,880	28,577	62,096	9,546	0,907	0,000
	1,400	0,024	99,611	27,772	28,466	62,106	9,545	0,904	10,716
	1,369	0,055	98,000	27,323	28,006	62,127	9,540	0,895	21,891
	1,368	0,056	97,900	27,295	27,977	62,128	9,540	0,894	22,491
	1,300	0,124	92,011	25,653	26,294	62,127	9,527	0,859	26,228
	1,200	0,224	83,154	23,184	23,763	62,117	9,505	0,806	25,680
	1,100	0,324	74,370	20,735	21,253	62,106	9,480	0,752	25,045
	1,000	0,424	65,673	18,310	18,768	62,093	9,452	0,698	24,292
	0,900	0,524	57,084	15,915	16,313	62,076	9,417	0,644	23,372
	0,800	0,624	48,633	13,559	13,898	62,056	9,377	0,589	22,228
	0,700	0,724	40,360	11,253	11,534	62,030	9,327	0,533	20,781
	0,600	0,824	32,327	9,013	9,238	61,995	9,265	0,476	18,933
	0,500	0,924	24,621	6,865	7,036	61,949	9,187	0,419	16,565
	0,400	1,024	17,378	4,845	4,966	61,881	9,085	0,360	13,552
	0,300	1,124	10,809	3,014	3,089	61,773	8,949	0,300	9,820
	0,200	1,224	5,264	1,468	1,504	61,574	8,761	0,236	5,524
	0,100	1,324	1,347	0,375	0,385	61,082	8,492	0,167	1,514
	0,087	1,337	1,000	0,279	0,286	60,967	8,447	0,157	1,099
	0,000	1,424	0,000	0,000	0,000	59,070	6,780	0,823	0,000

Tank Calibrations - 2AL9E

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



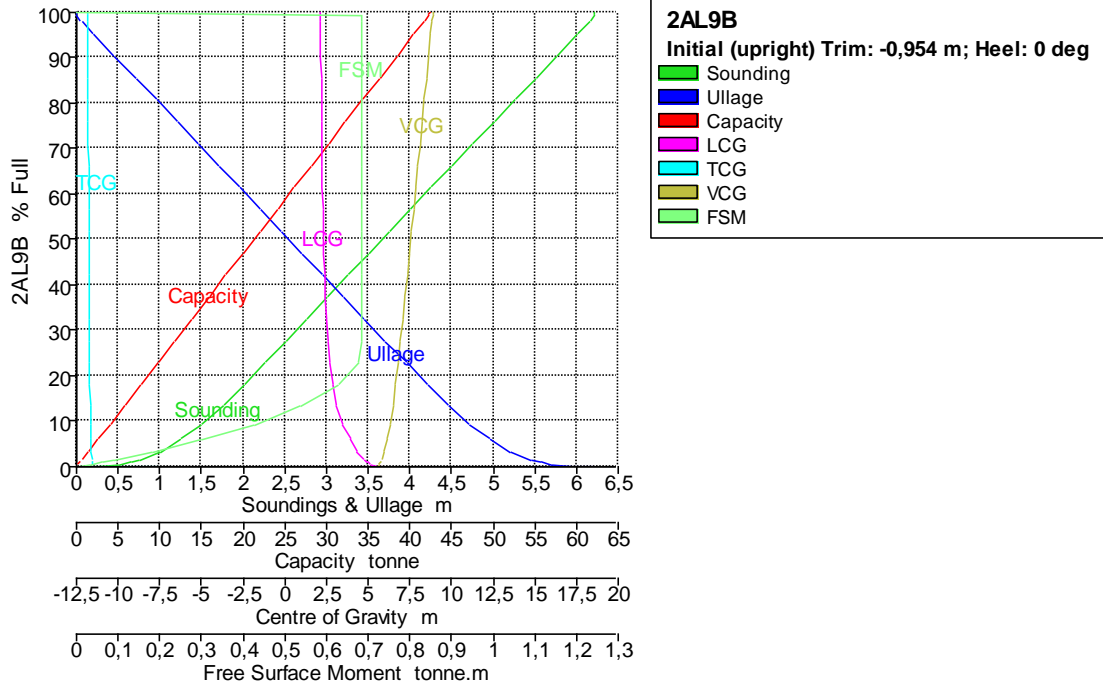
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL9E	6,218	0,000	100,000	41,486	42,523	2,144	11,791	8,885	0,000
	6,218	0,000	99,229	41,166	42,195	2,155	11,791	8,865	0,683
	6,154	0,064	98,000	40,656	41,672	2,157	11,791	8,833	0,683
	6,149	0,069	97,900	40,614	41,630	2,157	11,791	8,831	0,683
	6,000	0,218	95,030	39,424	40,409	2,162	11,790	8,756	0,683
	5,750	0,468	90,209	37,424	38,359	2,171	11,789	8,629	0,683
	5,500	0,718	85,388	35,424	36,309	2,180	11,788	8,503	0,683
	5,250	0,968	80,567	33,424	34,259	2,191	11,787	8,376	0,683
	5,000	1,218	75,746	31,424	32,209	2,203	11,785	8,250	0,683
	4,750	1,468	70,925	29,424	30,159	2,217	11,784	8,123	0,683
	4,500	1,718	66,104	27,424	28,109	2,233	11,782	7,996	0,683
	4,250	1,968	61,283	25,424	26,059	2,251	11,780	7,868	0,683
	4,000	2,218	56,462	23,424	24,009	2,273	11,777	7,740	0,683
	3,750	2,468	51,641	21,424	21,959	2,298	11,774	7,611	0,683
	3,500	2,718	46,820	19,424	19,909	2,329	11,771	7,482	0,683
	3,250	2,968	42,000	17,424	17,859	2,366	11,766	7,352	0,683
	3,000	3,218	37,179	15,424	15,809	2,414	11,761	7,220	0,683
	2,750	3,468	32,358	13,424	13,759	2,476	11,754	7,087	0,683
	2,500	3,718	27,537	11,424	11,709	2,559	11,744	6,950	0,683
	2,250	3,968	22,719	9,425	9,661	2,677	11,730	6,808	0,677
	2,000	4,218	17,963	7,452	7,638	2,848	11,711	6,660	0,629
	1,750	4,468	13,415	5,565	5,704	3,096	11,687	6,504	0,536
	1,500	4,718	9,270	3,846	3,942	3,455	11,660	6,339	0,424
	1,250	4,968	5,813	2,412	2,472	3,915	11,632	6,167	0,298
	1,000	5,218	3,252	1,349	1,383	4,370	11,599	5,993	0,179
	0,750	5,468	1,521	0,631	0,647	4,807	11,558	5,818	0,089
	0,641	5,576	1,000	0,415	0,425	4,991	11,535	5,742	0,059
	0,500	5,718	0,509	0,211	0,217	5,225	11,501	5,642	0,030
	0,250	5,968	0,074	0,031	0,032	5,622	11,413	5,463	0,004
	0,000	6,218	0,000	0,000	0,000	5,994	7,540	5,282	0,000

Tank Calibrations - 2AL9B

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL9B	6,218	0,000	100,000	41,486	42,523	2,144	-11,791	8,885	0,000
	6,218	0,000	99,229	41,166	42,195	2,155	-11,791	8,865	0,683
	6,154	0,064	98,000	40,656	41,672	2,157	-11,791	8,833	0,683
	6,149	0,069	97,900	40,614	41,630	2,157	-11,791	8,831	0,683
	6,000	0,218	95,030	39,424	40,409	2,162	-11,790	8,756	0,683
	5,750	0,468	90,209	37,424	38,359	2,171	-11,789	8,629	0,683
	5,500	0,718	85,388	35,424	36,309	2,180	-11,788	8,503	0,683
	5,250	0,968	80,567	33,424	34,259	2,191	-11,787	8,376	0,683
	5,000	1,218	75,746	31,424	32,209	2,203	-11,785	8,250	0,683
	4,750	1,468	70,925	29,424	30,159	2,217	-11,784	8,123	0,683
	4,500	1,718	66,104	27,424	28,109	2,233	-11,782	7,996	0,683
	4,250	1,968	61,283	25,424	26,059	2,251	-11,780	7,868	0,683
	4,000	2,218	56,462	23,424	24,009	2,273	-11,777	7,740	0,683
	3,750	2,468	51,641	21,424	21,959	2,298	-11,774	7,611	0,683
	3,500	2,718	46,820	19,424	19,909	2,329	-11,771	7,482	0,683
	3,250	2,968	42,000	17,424	17,859	2,366	-11,766	7,352	0,683
	3,000	3,218	37,179	15,424	15,809	2,414	-11,761	7,220	0,683
	2,750	3,468	32,358	13,424	13,759	2,476	-11,754	7,087	0,683
	2,500	3,718	27,537	11,424	11,709	2,559	-11,744	6,950	0,683
	2,250	3,968	22,719	9,425	9,661	2,677	-11,730	6,808	0,677
	2,000	4,218	17,963	7,452	7,638	2,848	-11,711	6,660	0,629
	1,750	4,468	13,415	5,565	5,704	3,096	-11,687	6,504	0,536
	1,500	4,718	9,270	3,846	3,942	3,455	-11,660	6,339	0,424
	1,250	4,968	5,813	2,412	2,472	3,915	-11,632	6,167	0,298
	1,000	5,218	3,252	1,349	1,383	4,370	-11,599	5,993	0,179
	0,750	5,468	1,521	0,631	0,647	4,807	-11,558	5,818	0,089
	0,641	5,576	1,000	0,415	0,425	4,991	-11,535	5,742	0,059

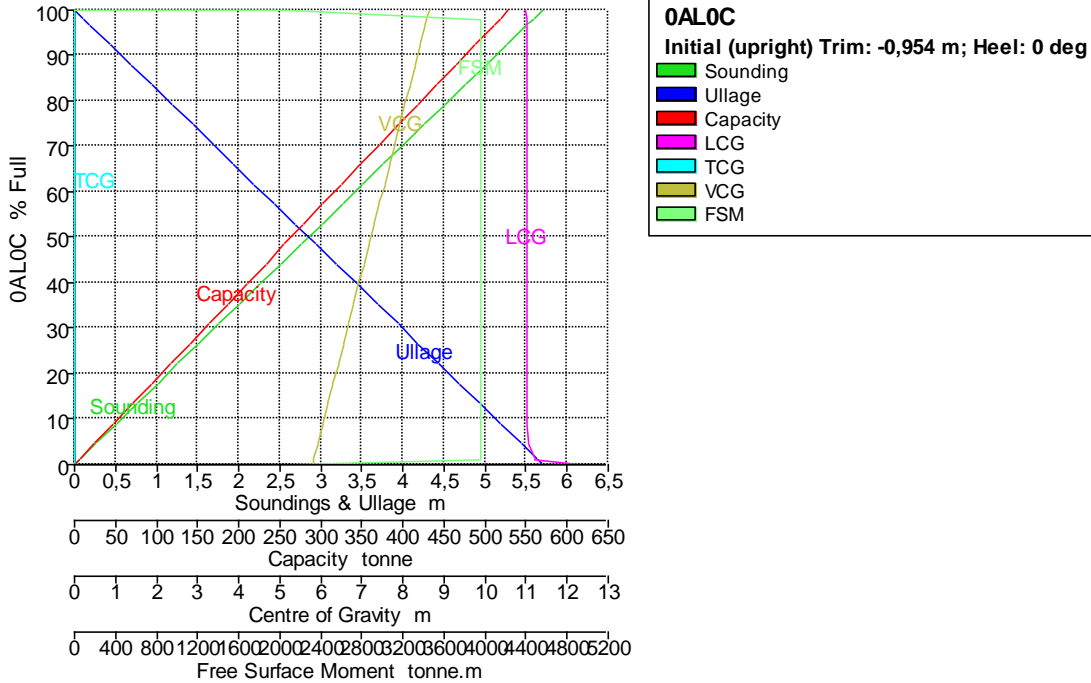
Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,500	5,718	0,509	0,211	0,217	5,225	-11,501	5,642	0,030
	0,250	5,968	0,074	0,031	0,032	5,622	-11,413	5,463	0,004
	0,000	6,218	0,000	0,000	0,000	5,994	-7,540	5,282	0,000

Tank Calibrations - 0ALOC

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = -0,954 m (+ve by stern); Heel = 0 deg

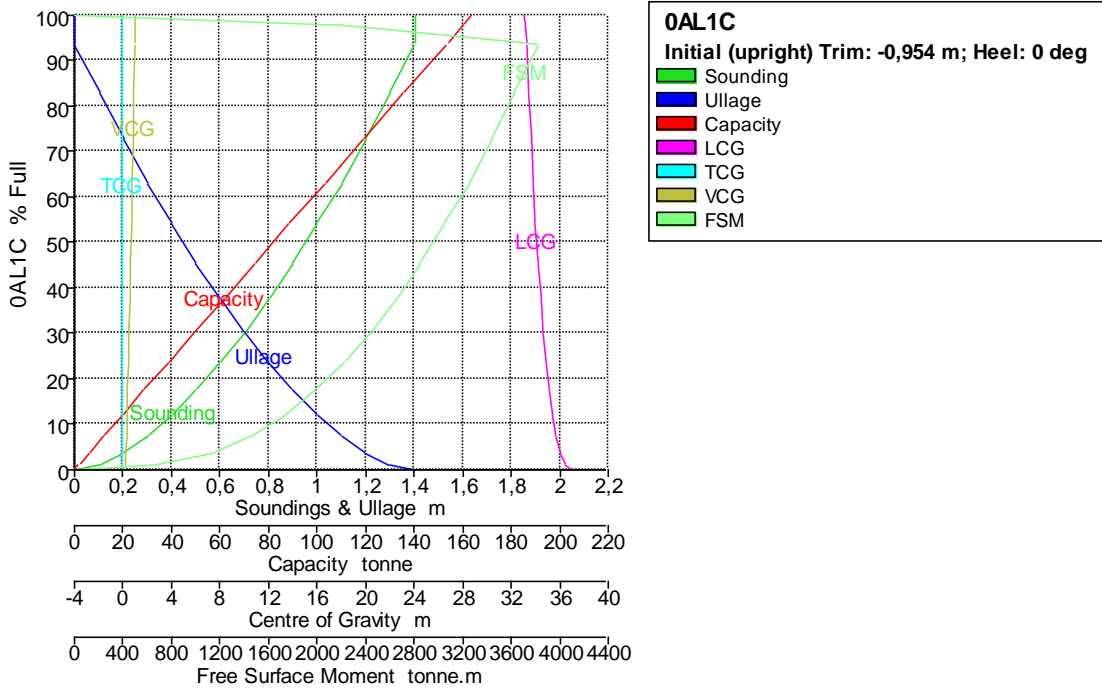


Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
OALOC	5,700	0,000	100,000	515,690	528,583	11,000	0,000	8,650	0,000
	5,700	0,000	99,915	515,255	528,136	11,001	0,000	8,648	2043,025
	5,586	0,114	98,000	505,377	518,011	11,002	0,000	8,593	3953,547
	5,580	0,120	97,900	504,861	517,482	11,002	0,000	8,590	3953,547
	5,500	0,200	96,498	497,629	510,070	11,002	0,000	8,550	3953,547
	5,250	0,450	92,112	475,011	486,887	11,003	0,000	8,425	3953,547
	5,000	0,700	87,726	452,393	463,703	11,003	0,000	8,300	3953,547
	4,750	0,950	83,340	429,775	440,520	11,003	0,000	8,175	3953,547
	4,500	1,200	78,954	407,157	417,336	11,003	0,000	8,050	3953,547
	4,250	1,450	74,568	384,539	394,153	11,003	0,000	7,925	3953,547
	4,000	1,700	70,182	361,921	370,969	11,003	0,000	7,800	3953,547
	3,750	1,950	65,796	339,303	347,786	11,004	0,000	7,675	3953,547
	3,500	2,200	61,410	316,685	324,602	11,004	0,000	7,550	3953,547
	3,250	2,450	57,024	294,067	301,419	11,004	0,000	7,425	3953,547
	3,000	2,700	52,638	271,449	278,235	11,004	0,000	7,300	3953,547
	2,750	2,950	48,252	248,831	255,052	11,005	0,000	7,175	3953,547
	2,500	3,200	43,866	226,213	231,869	11,005	0,000	7,050	3953,547
	2,250	3,450	39,480	203,595	208,685	11,006	0,000	6,925	3953,547
	2,000	3,700	35,094	180,977	185,502	11,007	0,000	6,800	3953,547

Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	1,750	3,950	30,708	158,359	162,318	11,008	0,000	6,675	3953,547
	1,500	4,200	26,322	135,741	139,135	11,009	0,000	6,550	3953,547
	1,250	4,450	21,936	113,123	115,951	11,011	0,000	6,425	3953,547
	1,000	4,700	17,550	90,505	92,768	11,013	0,000	6,300	3953,547
	0,750	4,950	13,164	67,887	69,584	11,018	0,000	6,175	3953,547
	0,500	5,200	8,778	45,269	46,401	11,027	0,000	6,050	3953,547
	0,250	5,450	4,392	22,651	23,218	11,053	0,000	5,925	3953,547
	0,057	5,643	1,000	5,157	5,286	11,234	0,000	5,830	3953,547
	0,000	5,700	0,091	0,469	0,481	12,321	0,000	5,804	2115,686

Tank Calibrations - 0AL1C

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg

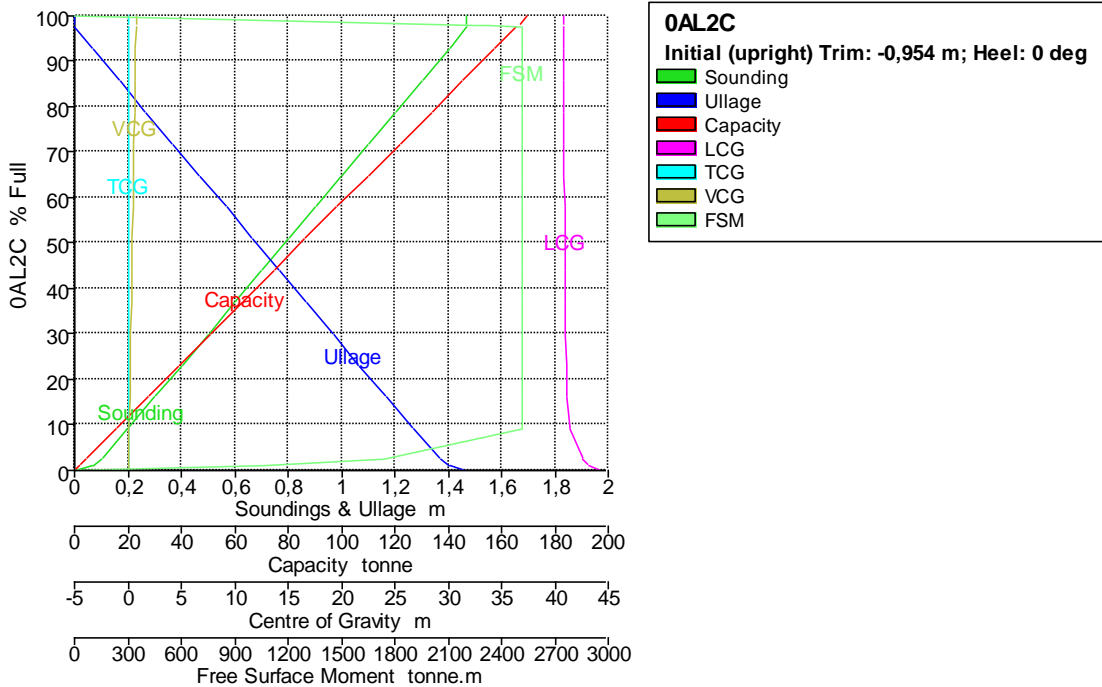


Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL1C	1,402	0,000	100,000	159,787	163,781	33,040	0,000	0,963	0,000
	1,402	0,000	98,000	156,591	160,506	33,144	0,000	0,952	2106,189
	1,402	0,000	97,900	156,431	160,342	33,149	0,000	0,952	2178,816
	1,402	0,000	93,662	149,659	153,401	33,266	0,000	0,929	3823,364
	1,400	0,002	93,417	149,267	152,999	33,270	0,000	0,928	3818,437
	1,300	0,102	82,730	132,192	135,497	33,452	0,000	0,867	3623,846
	1,200	0,202	72,583	115,978	118,878	33,637	0,000	0,807	3437,598
	1,100	0,302	62,982	100,637	103,153	33,825	0,000	0,747	3250,974
	1,000	0,402	53,926	86,167	88,321	34,017	0,000	0,687	3043,303
	0,900	0,502	45,437	72,603	74,418	34,215	0,000	0,628	2852,474
	0,800	0,602	37,522	59,955	61,454	34,420	0,000	0,569	2652,203
	0,700	0,702	30,196	48,249	49,455	34,633	0,000	0,510	2441,600
	0,600	0,802	23,482	37,521	38,459	34,859	0,000	0,451	2220,939

Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,500	0,902	17,412	27,822	28,517	35,101	0,000	0,392	1988,092
	0,400	1,002	12,029	19,220	19,701	35,367	0,000	0,333	1727,379
	0,300	1,102	7,406	11,834	12,130	35,667	0,000	0,275	1446,662
	0,200	1,202	3,659	5,846	5,992	36,027	0,000	0,219	1110,191
	0,100	1,302	1,008	1,611	1,652	36,500	0,000	0,165	645,339
	0,100	1,303	1,000	1,598	1,638	36,502	0,000	0,164	642,790
	0,000	1,402	0,000	0,000	0,000	37,173	0,000	0,098	0,000

Tank Calibrations - 0AL2C

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg

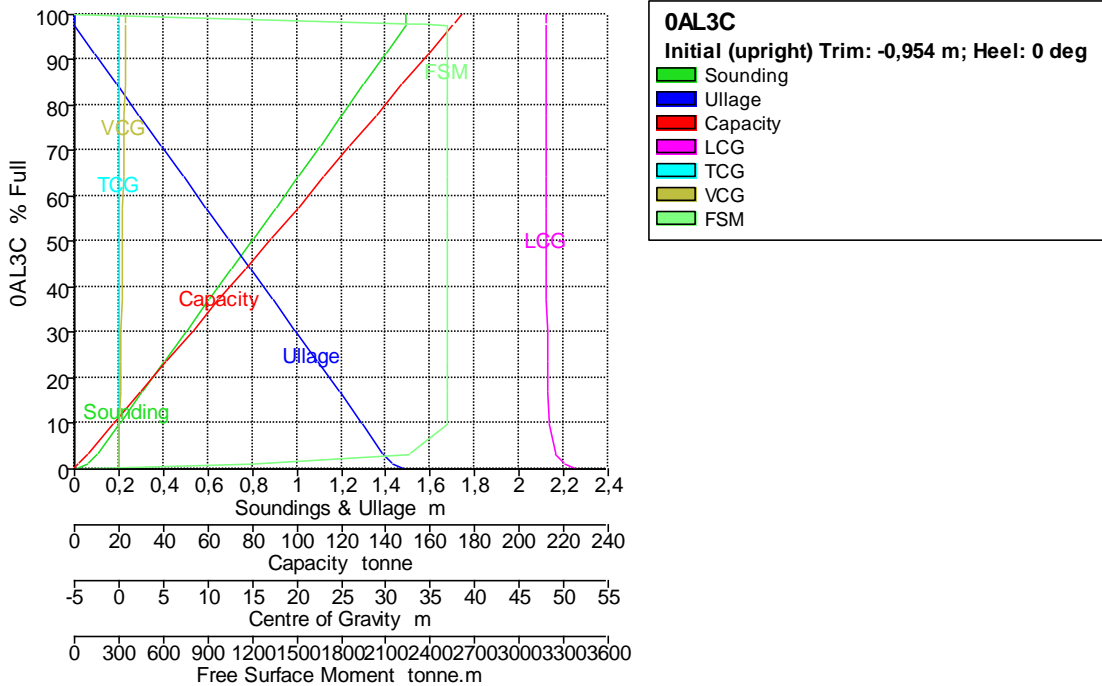


Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
OAL2C	1,472	0,000	100,000	165,617	169,757	40,827	0,000	0,781	0,000
	1,472	0,000	98,000	162,304	166,362	40,857	0,000	0,767	2258,956
	1,472	0,000	97,900	162,139	166,192	40,857	0,000	0,766	2331,583
	1,472	0,000	97,496	161,469	165,506	40,858	0,000	0,763	2519,166
	1,400	0,072	92,518	153,224	157,055	40,861	0,000	0,727	2519,166
	1,300	0,172	85,562	141,704	145,247	40,866	0,000	0,677	2519,166
	1,200	0,272	78,606	130,184	133,439	40,872	0,000	0,627	2519,166
	1,100	0,372	71,650	118,664	121,631	40,879	0,000	0,577	2519,166
	1,000	0,472	64,694	107,144	109,823	40,888	0,000	0,527	2519,166
	0,900	0,572	57,738	95,624	98,015	40,898	0,000	0,477	2519,166
	0,800	0,672	50,783	84,104	86,207	40,912	0,000	0,427	2519,166
	0,700	0,772	43,827	72,584	74,399	40,929	0,000	0,377	2519,166
	0,600	0,872	36,871	61,064	62,591	40,954	0,000	0,327	2519,166
	0,500	0,972	29,915	49,544	50,783	40,990	0,000	0,277	2519,166
	0,400	1,072	22,959	38,024	38,975	41,047	0,000	0,227	2519,166

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,300	1,172	16,004	26,504	27,167	41,155	0,000	0,177	2519,166
	0,200	1,272	9,048	14,984	15,359	41,427	0,000	0,127	2519,166
	0,100	1,372	2,528	4,186	4,291	42,539	0,000	0,078	1725,885
	0,064	1,407	1,000	1,656	1,698	43,169	0,000	0,062	1053,080
	0,000	1,472	0,000	0,000	0,000	44,394	0,000	0,028	0,000

Tank Calibrations - 0AL3C

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL3C	1,493	0,000	100,000	170,025	174,275	48,008	0,000	0,762	0,000
	1,493	0,000	98,000	166,624	170,790	48,038	0,000	0,747	2281,741
	1,493	0,000	97,900	166,454	170,615	48,038	0,000	0,747	2354,368
	1,493	0,000	97,561	165,877	170,024	48,039	0,000	0,744	2519,166
	1,400	0,093	91,233	155,118	158,996	48,041	0,000	0,697	2519,166
	1,300	0,193	84,457	143,598	147,188	48,045	0,000	0,647	2519,166
	1,200	0,293	77,682	132,078	135,380	48,048	0,000	0,597	2519,166
	1,100	0,393	70,906	120,558	123,572	48,053	0,000	0,547	2519,166
	1,000	0,493	64,131	109,038	111,764	48,059	0,000	0,498	2519,166
	0,900	0,593	57,355	97,518	99,956	48,066	0,000	0,448	2519,166
	0,800	0,693	50,580	85,998	88,148	48,074	0,000	0,398	2519,166
	0,700	0,793	43,804	74,478	76,340	48,086	0,000	0,348	2519,166
	0,600	0,893	37,029	62,958	64,532	48,102	0,000	0,298	2519,166
	0,500	0,993	30,253	51,438	52,724	48,124	0,000	0,248	2519,166
	0,400	1,093	23,478	39,918	40,916	48,160	0,000	0,198	2519,166
	0,300	1,193	16,702	28,398	29,108	48,225	0,000	0,148	2519,166
	0,200	1,293	9,927	16,878	17,300	48,379	0,000	0,098	2519,166

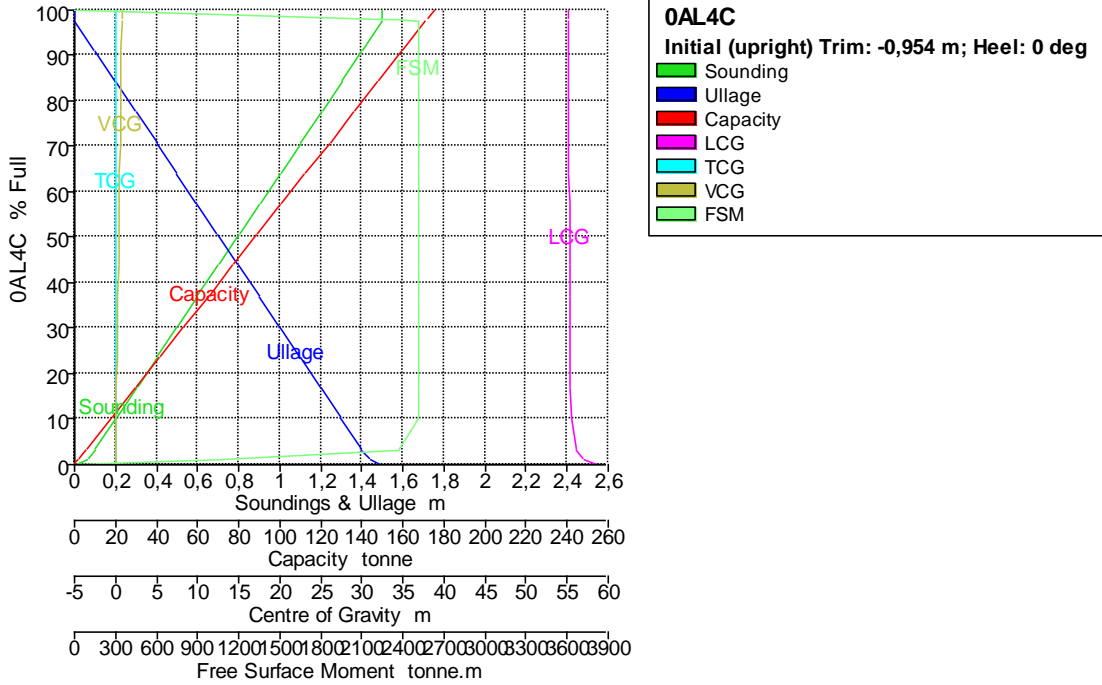
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,100	1,393	3,178	5,403	5,538	49,157	0,000	0,050	2252,272
	0,058	1,435	1,000	1,700	1,743	50,145	0,000	0,034	1175,913
	0,000	1,493	0,000	0,000	0,000	51,547	0,000	0,007	0,000

Tank Calibrations - 0AL4C

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = -0,954 m (+ve by stern); Heel = 0 deg

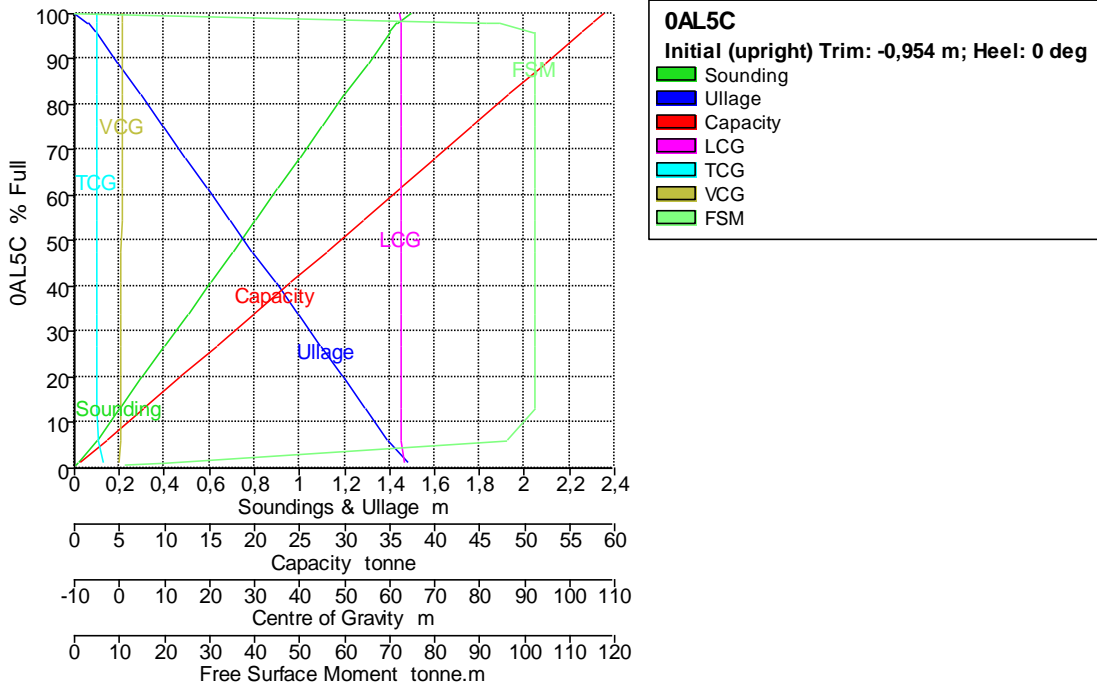


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL4C	1,500	0,000	100,000	171,049	175,325	55,199	0,000	0,758	0,000
	1,500	0,000	98,000	167,628	171,819	55,228	0,000	0,743	2304,527
	1,500	0,000	97,900	167,457	171,644	55,228	0,000	0,742	2377,154
	1,500	0,000	97,575	166,902	171,074	55,229	0,000	0,740	2519,166
	1,400	0,100	90,850	155,399	159,284	55,231	0,000	0,690	2519,166
	1,300	0,200	84,116	143,879	147,476	55,233	0,000	0,640	2519,166
	1,200	0,300	77,381	132,359	135,668	55,236	0,000	0,590	2519,166
	1,100	0,400	70,646	120,839	123,860	55,239	0,000	0,540	2519,166
	1,000	0,500	63,911	109,319	112,052	55,244	0,000	0,490	2519,166
	0,900	0,600	57,176	97,799	100,244	55,249	0,000	0,440	2519,166
	0,800	0,700	50,441	86,279	88,436	55,255	0,000	0,390	2519,166
	0,700	0,800	43,706	74,759	76,628	55,264	0,000	0,340	2519,166
	0,600	0,900	36,971	63,239	64,820	55,275	0,000	0,290	2519,166
	0,500	1,000	30,236	51,719	53,012	55,292	0,000	0,240	2519,166
	0,400	1,100	23,501	40,199	41,204	55,319	0,000	0,190	2519,166
	0,300	1,200	16,766	28,679	29,396	55,366	0,000	0,140	2519,166
	0,200	1,300	10,032	17,159	17,588	55,478	0,000	0,090	2519,166
	0,100	1,400	3,306	5,654	5,796	56,035	0,000	0,042	2376,466
	0,059	1,441	1,000	1,710	1,753	57,059	0,000	0,025	1029,560

Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,000	1,500	0,000	0,000	0,000	58,768	0,000	0,000	0,000

Tank Calibrations - 0AL5C

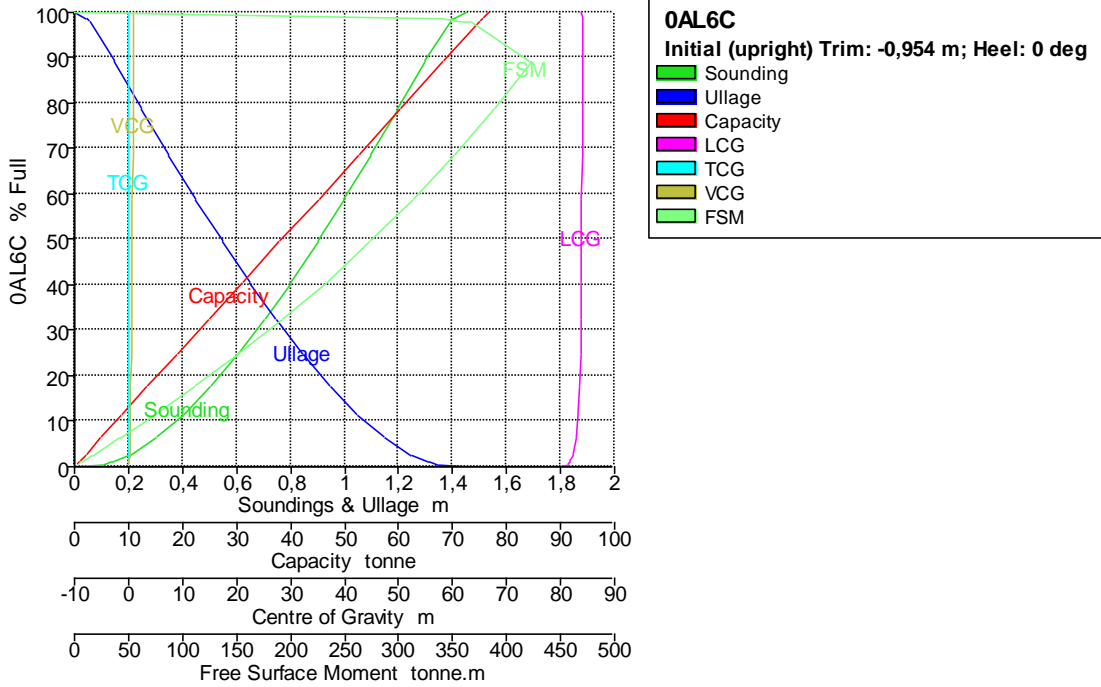
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL5C	1,496	0,000	100,000	57,326	58,759	62,373	-5,212	0,776	0,000
	1,432	0,065	98,000	56,180	57,584	62,402	-5,211	0,761	91,583
	1,430	0,066	97,900	56,122	57,525	62,402	-5,211	0,760	94,533
	1,400	0,096	95,846	54,945	56,318	62,403	-5,210	0,746	102,326
	1,300	0,196	88,938	50,985	52,259	62,403	-5,207	0,696	102,326
	1,200	0,296	82,030	47,025	48,200	62,403	-5,204	0,646	102,326
	1,100	0,396	75,122	43,065	44,141	62,404	-5,199	0,595	102,326
	1,000	0,496	68,214	39,105	40,082	62,404	-5,194	0,545	102,326
	0,900	0,596	61,307	35,145	36,023	62,405	-5,188	0,495	102,326
	0,800	0,696	54,399	31,185	31,964	62,405	-5,180	0,445	102,326
	0,700	0,796	47,491	27,225	27,905	62,406	-5,170	0,395	102,326
	0,600	0,896	40,583	23,265	23,846	62,407	-5,156	0,345	102,326
	0,500	0,996	33,675	19,305	19,787	62,408	-5,137	0,295	102,326
	0,400	1,096	26,767	15,345	15,728	62,410	-5,108	0,244	102,326
	0,300	1,196	19,860	11,385	11,669	62,414	-5,059	0,194	102,326
	0,200	1,296	12,952	7,425	7,610	62,421	-4,957	0,142	102,326
	0,100	1,396	6,076	3,483	3,570	62,462	-4,639	0,089	95,783
	0,011	1,485	1,000	0,573	0,588	63,252	-3,657	0,042	19,084
	0,000	1,496	0,611	0,350	0,359	63,641	-3,483	0,037	11,026

Tank Calibrations - 0AL6C

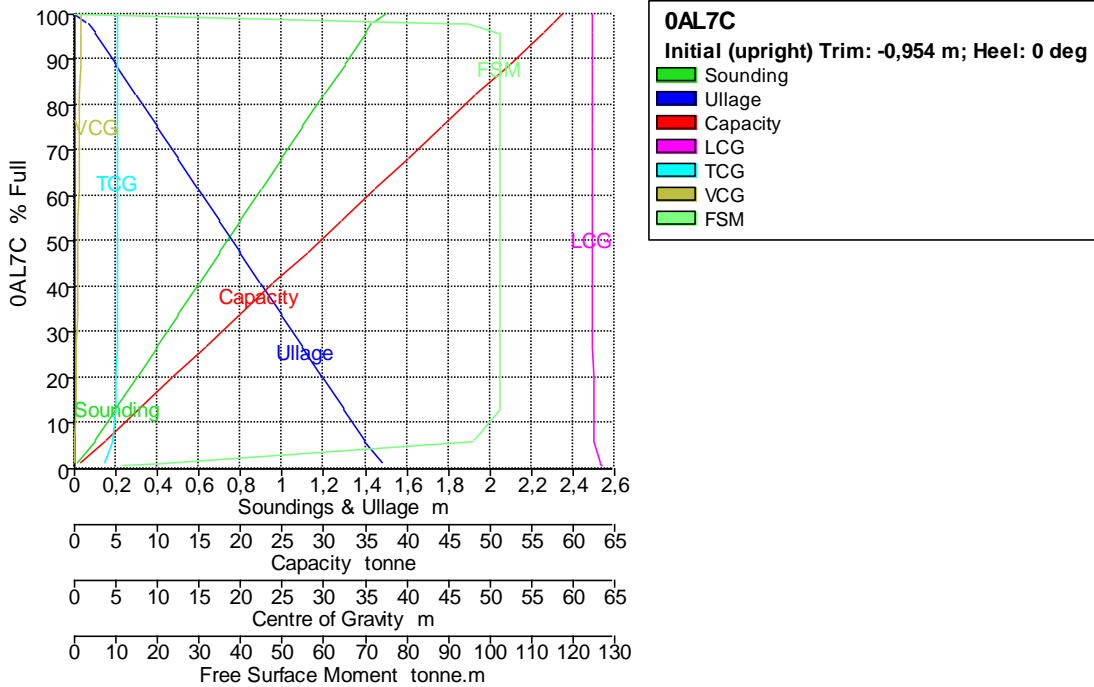
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL6C	1,448	0,000	100,000	74,799	76,669	83,932	0,000	0,968	0,000
	1,400	0,048	98,448	73,638	75,479	83,978	0,000	0,960	340,473
	1,393	0,056	98,000	73,303	75,136	83,988	0,000	0,957	360,426
	1,391	0,057	97,900	73,229	75,059	83,990	0,000	0,957	366,544
	1,300	0,148	89,068	66,622	68,288	84,019	0,000	0,909	423,036
	1,200	0,248	78,608	58,799	60,269	83,996	0,000	0,851	387,788
	1,100	0,348	68,481	51,223	52,504	83,968	0,000	0,792	351,047
	1,000	0,448	58,723	43,925	45,023	83,935	0,000	0,733	312,872
	0,900	0,548	49,381	36,937	37,860	83,892	0,000	0,673	273,408
	0,800	0,648	40,509	30,300	31,058	83,838	0,000	0,613	232,925
	0,700	0,748	32,172	24,064	24,666	83,766	0,000	0,552	191,856
	0,600	0,848	24,452	18,290	18,747	83,667	0,000	0,490	150,873
	0,500	0,948	17,455	13,056	13,383	83,521	0,000	0,427	110,969
	0,400	1,048	11,319	8,467	8,678	83,291	0,000	0,362	73,618
	0,300	1,148	6,244	4,671	4,787	82,894	0,000	0,293	41,008
	0,200	1,248	2,548	1,906	1,953	82,235	0,000	0,219	16,297
	0,133	1,315	1,000	0,748	0,767	81,669	0,000	0,167	5,863
	0,100	1,348	0,506	0,379	0,388	81,331	0,000	0,141	2,694
	0,000	1,448	0,000	0,000	0,000	79,557	0,000	0,052	0,000

Tank Calibrations - 0AL7C

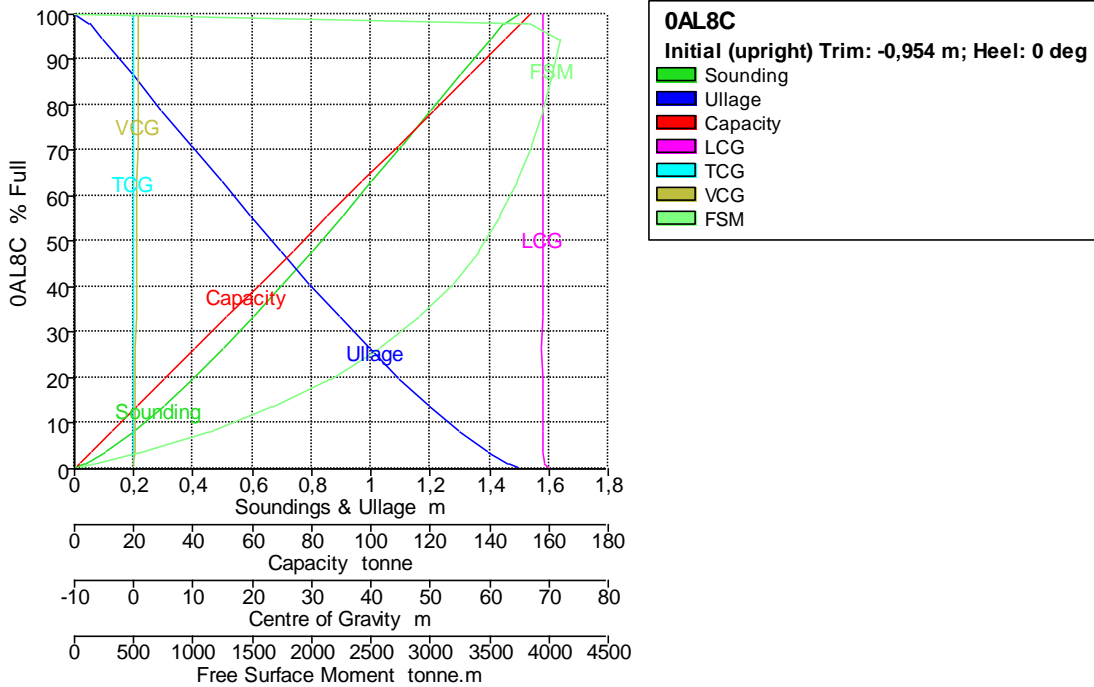
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL7C	1,496	0,000	100,000	57,326	58,759	62,373	5,212	0,776	0,000
	1,432	0,065	98,000	56,180	57,584	62,402	5,211	0,761	91,583
	1,430	0,066	97,900	56,122	57,525	62,402	5,211	0,760	94,533
	1,400	0,096	95,846	54,945	56,318	62,403	5,210	0,746	102,326
	1,300	0,196	88,938	50,985	52,259	62,403	5,207	0,696	102,326
	1,200	0,296	82,030	47,025	48,200	62,403	5,204	0,646	102,326
	1,100	0,396	75,122	43,065	44,141	62,404	5,199	0,595	102,326
	1,000	0,496	68,214	39,105	40,082	62,404	5,194	0,545	102,326
	0,900	0,596	61,307	35,145	36,023	62,405	5,188	0,495	102,326
	0,800	0,696	54,399	31,185	31,964	62,405	5,180	0,445	102,326
	0,700	0,796	47,491	27,225	27,905	62,406	5,170	0,395	102,326
	0,600	0,896	40,583	23,265	23,846	62,407	5,156	0,345	102,326
	0,500	0,996	33,675	19,305	19,787	62,408	5,137	0,295	102,326
	0,400	1,096	26,767	15,345	15,728	62,410	5,108	0,244	102,326
	0,300	1,196	19,860	11,385	11,669	62,414	5,059	0,194	102,326
	0,200	1,296	12,952	7,425	7,610	62,421	4,957	0,142	102,326
	0,100	1,396	6,076	3,483	3,570	62,462	4,639	0,089	95,783
	0,011	1,485	1,000	0,573	0,588	63,252	3,657	0,042	19,084
	0,000	1,496	0,611	0,350	0,359	63,641	3,483	0,037	11,026

Tank Calibrations - 0AL8C

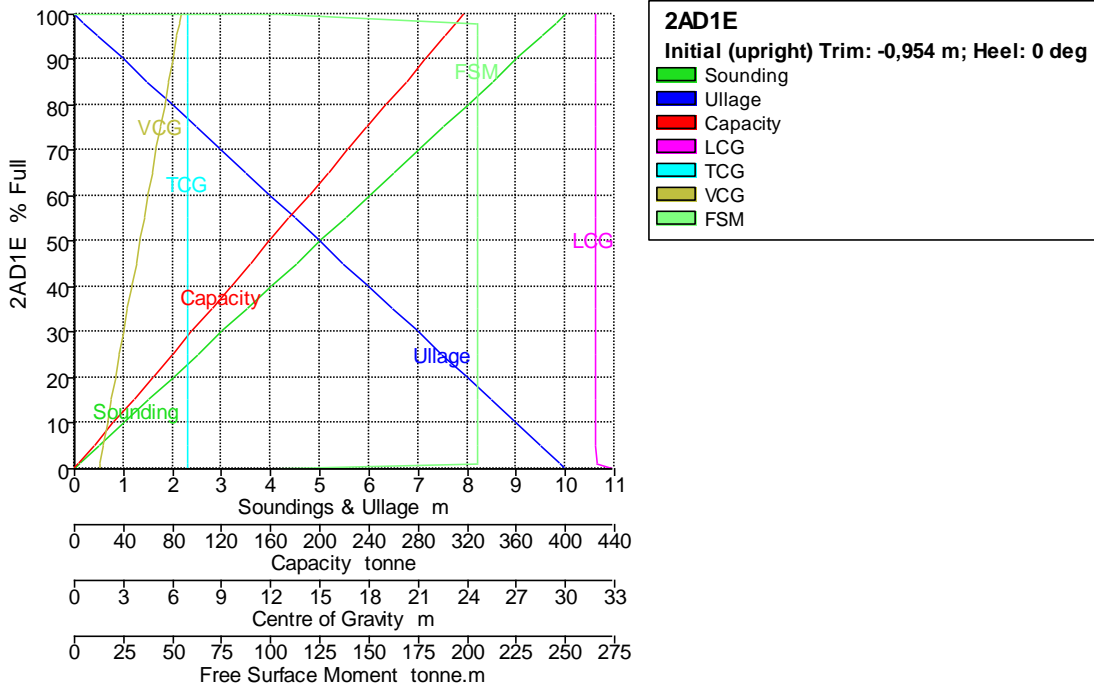
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL8C	1,498	0,000	100,000	149,995	153,745	68,853	0,000	0,839	0,000
	1,444	0,054	98,000	146,995	150,670	68,876	0,000	0,826	3845,983
	1,443	0,055	97,900	146,845	150,517	68,876	0,000	0,825	3845,322
	1,400	0,098	94,506	141,755	145,299	68,875	0,000	0,803	4090,483
	1,300	0,198	86,557	129,831	133,077	68,873	0,000	0,750	4026,638
	1,200	0,298	78,655	117,979	120,928	68,870	0,000	0,696	3949,450
	1,100	0,398	70,812	106,214	108,870	68,866	0,000	0,643	3854,987
	1,000	0,498	63,042	94,560	96,924	68,863	0,000	0,589	3738,249
	0,900	0,598	55,365	83,045	85,121	68,860	0,000	0,534	3592,945
	0,800	0,698	47,808	71,709	73,502	68,856	0,000	0,479	3411,474
	0,700	0,798	40,404	60,604	62,120	68,853	0,000	0,424	3184,881
	0,600	0,898	33,201	49,800	51,045	68,851	0,000	0,368	2903,772
	0,500	0,998	26,260	39,389	40,373	68,851	0,000	0,312	2560,113
	0,400	1,098	19,661	29,491	30,228	68,853	0,000	0,255	2149,171
	0,300	1,198	13,516	20,273	20,779	68,864	0,000	0,198	1670,477
	0,200	1,298	7,986	11,979	12,278	68,894	0,000	0,140	1126,019
	0,100	1,398	3,355	5,033	5,159	69,000	0,000	0,082	538,748
	0,031	1,466	1,000	1,500	1,537	69,350	0,000	0,043	162,941
	0,000	1,498	0,297	0,446	0,457	70,088	0,000	0,030	38,920

Tank Calibrations - 2AD1E

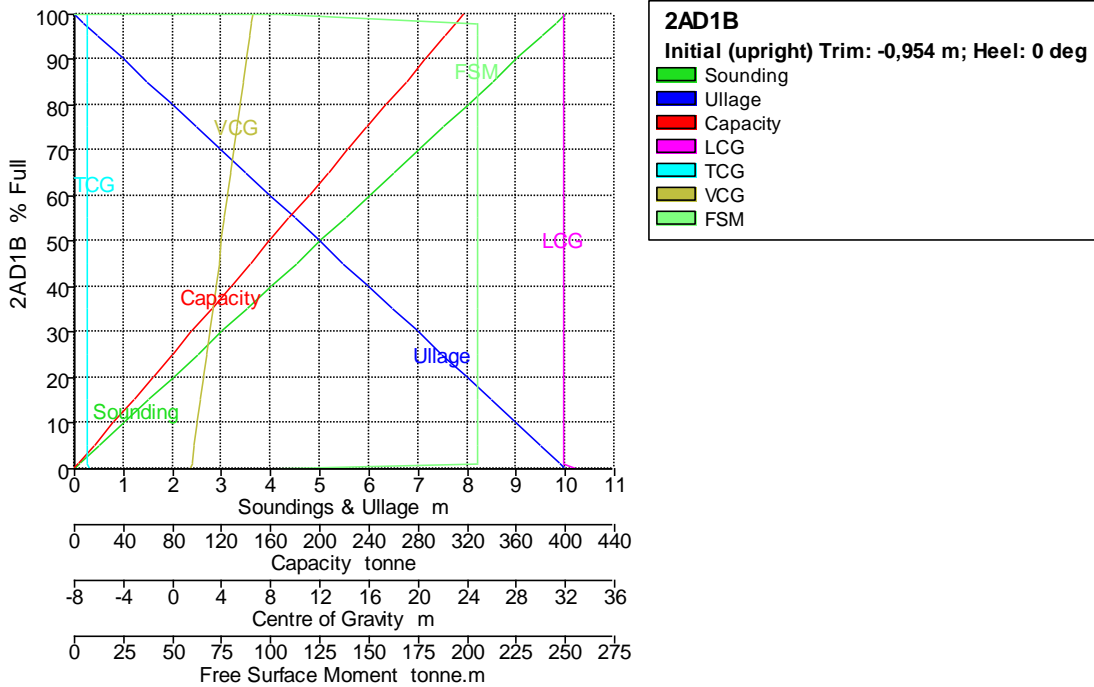
Fluid Type = AD Specific gravity = 1
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AD1E	10,000	0,000	100,000	317,124	317,124	31,800	6,905	6,500	0,000
	10,000	0,000	99,959	316,994	316,994	31,801	6,905	6,498	103,937
	9,799	0,201	98,000	310,782	310,782	31,801	6,905	6,400	205,080
	9,789	0,211	97,900	310,464	310,464	31,801	6,905	6,395	205,080
	9,500	0,500	95,008	301,293	301,293	31,801	6,905	6,250	205,080
	9,000	1,000	90,008	285,437	285,437	31,801	6,905	6,000	205,080
	8,500	1,500	85,008	269,581	269,581	31,801	6,905	5,750	205,080
	8,000	2,000	80,008	253,724	253,724	31,801	6,905	5,500	205,080
	7,500	2,500	75,008	237,868	237,868	31,801	6,905	5,250	205,080
	7,000	3,000	70,008	222,012	222,012	31,802	6,905	5,000	205,080
	6,500	3,500	65,008	206,156	206,156	31,802	6,905	4,750	205,080
	6,000	4,000	60,008	190,300	190,300	31,802	6,905	4,500	205,080
	5,500	4,500	55,008	174,443	174,443	31,802	6,905	4,250	205,080
	5,000	5,000	50,008	158,587	158,587	31,802	6,905	4,000	205,080
	4,500	5,500	45,008	142,731	142,731	31,802	6,905	3,750	205,080
	4,000	6,000	40,008	126,875	126,875	31,803	6,905	3,500	205,080
	3,500	6,500	35,008	111,019	111,019	31,803	6,905	3,250	205,080
	3,000	7,000	30,008	95,162	95,162	31,804	6,905	3,000	205,080
	2,500	7,500	25,008	79,306	79,306	31,804	6,905	2,750	205,080
	2,000	8,000	20,008	63,450	63,450	31,805	6,905	2,500	205,080
	1,500	8,500	15,008	47,594	47,594	31,807	6,905	2,250	205,080
	1,000	9,000	10,008	31,738	31,738	31,811	6,905	2,000	205,080
	0,500	9,500	5,008	15,881	15,881	31,822	6,905	1,751	205,080
	0,099	9,901	1,000	3,171	3,171	31,908	6,905	1,551	205,080
	0,000	10,000	0,049	0,156	0,156	32,974	6,876	1,520	101,143

Tank Calibrations - 2AD1B

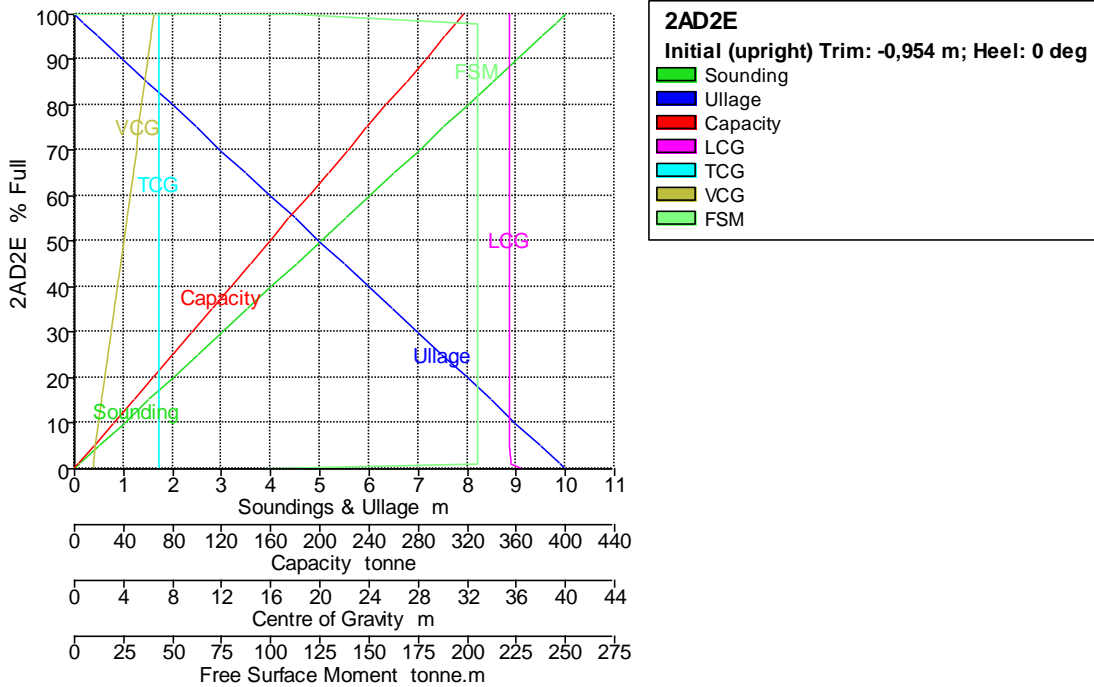
Fluid Type = AD Specific gravity = 1
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AD1B	10,000	0,000	100,000	317,124	317,124	31,800	-6,905	6,500	0,000
	10,000	0,000	99,959	316,994	316,994	31,801	-6,905	6,498	103,937
	9,799	0,201	98,000	310,782	310,782	31,801	-6,905	6,400	205,080
	9,789	0,211	97,900	310,464	310,464	31,801	-6,905	6,395	205,080
	9,500	0,500	95,008	301,293	301,293	31,801	-6,905	6,250	205,080
	9,000	1,000	90,008	285,437	285,437	31,801	-6,905	6,000	205,080
	8,500	1,500	85,008	269,581	269,581	31,801	-6,905	5,750	205,080
	8,000	2,000	80,008	253,724	253,724	31,801	-6,905	5,500	205,080
	7,500	2,500	75,008	237,868	237,868	31,801	-6,905	5,250	205,080
	7,000	3,000	70,008	222,012	222,012	31,802	-6,905	5,000	205,080
	6,500	3,500	65,008	206,156	206,156	31,802	-6,905	4,750	205,080
	6,000	4,000	60,008	190,300	190,300	31,802	-6,905	4,500	205,080
	5,500	4,500	55,008	174,443	174,443	31,802	-6,905	4,250	205,080
	5,000	5,000	50,008	158,587	158,587	31,802	-6,905	4,000	205,080
	4,500	5,500	45,008	142,731	142,731	31,802	-6,905	3,750	205,080
	4,000	6,000	40,008	126,875	126,875	31,803	-6,905	3,500	205,080
	3,500	6,500	35,008	111,019	111,019	31,803	-6,905	3,250	205,080
	3,000	7,000	30,008	95,162	95,162	31,804	-6,905	3,000	205,080
	2,500	7,500	25,008	79,306	79,306	31,804	-6,905	2,750	205,080
	2,000	8,000	20,008	63,450	63,450	31,805	-6,905	2,500	205,080
	1,500	8,500	15,008	47,594	47,594	31,807	-6,905	2,250	205,080
	1,000	9,000	10,008	31,738	31,738	31,811	-6,905	2,000	205,080
	0,500	9,500	5,008	15,881	15,881	31,822	-6,905	1,751	205,080
	0,099	9,901	1,000	3,171	3,171	31,908	-6,905	1,551	205,080
	0,000	10,000	0,049	0,156	0,156	32,974	-6,876	1,520	101,143

Tank Calibrations - 2AD2E

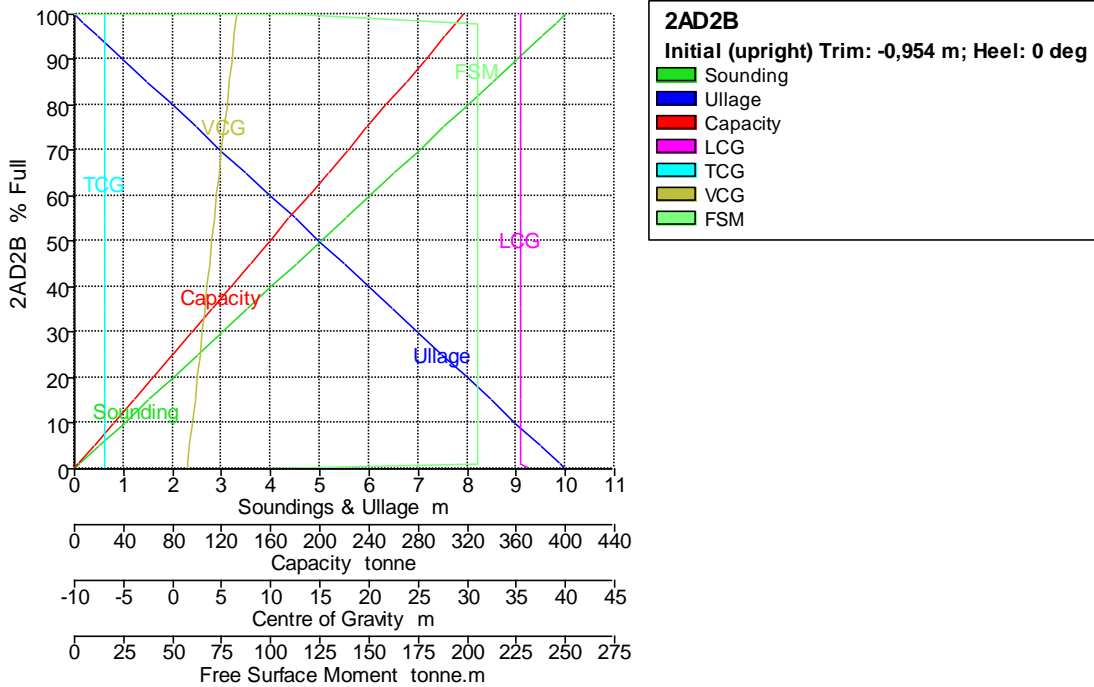
Fluid Type = AD Specific gravity = 1
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AD2E	10,000	0,000	100,000	317,124	317,124	35,400	6,905	6,500	0,000
	10,000	0,000	99,952	316,972	316,972	35,401	6,905	6,498	111,704
	9,801	0,199	98,000	310,781	310,781	35,401	6,905	6,400	205,080
	9,791	0,209	97,900	310,464	310,464	35,401	6,905	6,395	205,080
	9,500	0,500	94,994	301,250	301,250	35,401	6,905	6,250	205,080
	9,000	1,000	89,994	285,393	285,393	35,401	6,905	6,000	205,080
	8,500	1,500	84,994	269,537	269,537	35,401	6,905	5,750	205,080
	8,000	2,000	79,994	253,681	253,681	35,401	6,905	5,500	205,080
	7,500	2,500	74,994	237,825	237,825	35,401	6,905	5,250	205,080
	7,000	3,000	69,994	221,969	221,969	35,402	6,905	5,000	205,080
	6,500	3,500	64,994	206,112	206,112	35,402	6,905	4,750	205,080
	6,000	4,000	59,994	190,256	190,256	35,402	6,905	4,500	205,080
	5,500	4,500	54,994	174,400	174,400	35,402	6,905	4,250	205,080
	5,000	5,000	49,994	158,544	158,544	35,402	6,905	4,000	205,080
	4,500	5,500	44,994	142,688	142,688	35,402	6,905	3,750	205,080
	4,000	6,000	39,994	126,831	126,831	35,403	6,905	3,500	205,080
	3,500	6,500	34,994	110,975	110,975	35,403	6,905	3,250	205,080
	3,000	7,000	29,994	95,119	95,119	35,404	6,905	3,000	205,080
	2,500	7,500	24,994	79,263	79,263	35,404	6,905	2,750	205,080
	2,000	8,000	19,994	63,407	63,407	35,405	6,905	2,500	205,080
	1,500	8,500	14,994	47,550	47,550	35,407	6,905	2,250	205,080
	1,000	9,000	9,994	31,694	31,694	35,411	6,905	2,000	205,080
	0,500	9,500	4,994	15,838	15,838	35,422	6,905	1,750	205,080
	0,101	9,899	1,000	3,171	3,171	35,508	6,905	1,551	205,080
	0,000	10,000	0,042	0,134	0,134	36,619	6,872	1,522	93,375

Tank Calibrations - 2AD2B

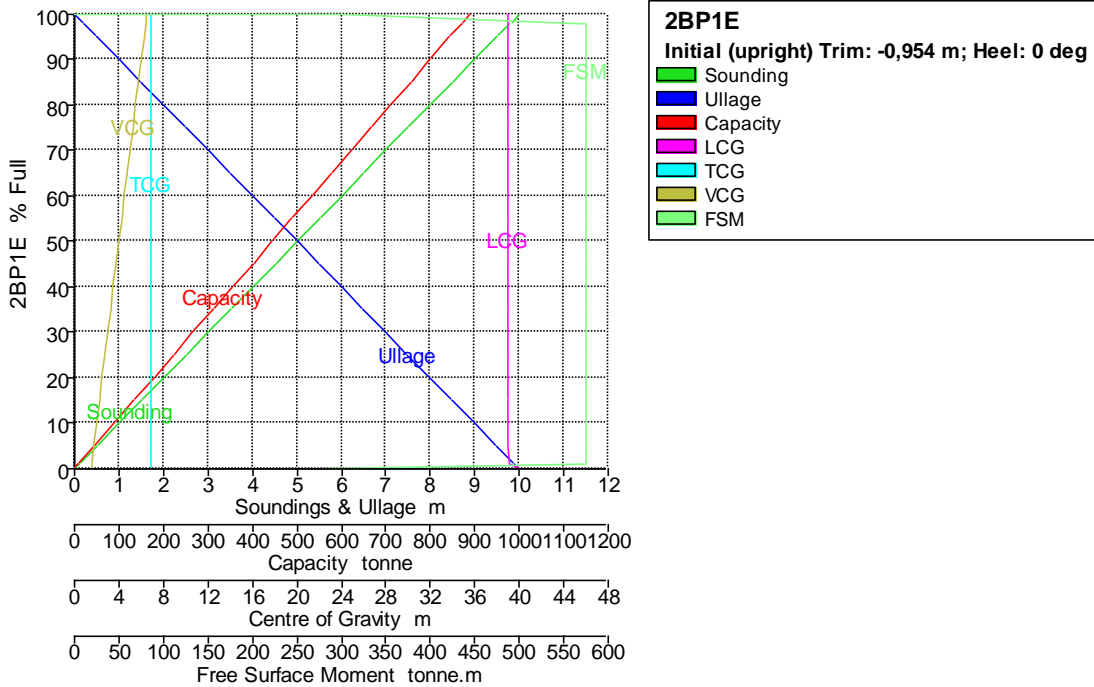
Fluid Type = AD Specific gravity = 1
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AD2B	10,000	0,000	100,000	317,124	317,124	35,400	-6,905	6,500	0,000
	10,000	0,000	99,952	316,972	316,972	35,401	-6,905	6,498	111,704
	9,801	0,199	98,000	310,781	310,781	35,401	-6,905	6,400	205,080
	9,791	0,209	97,900	310,464	310,464	35,401	-6,905	6,395	205,080
	9,500	0,500	94,994	301,250	301,250	35,401	-6,905	6,250	205,080
	9,000	1,000	89,994	285,393	285,393	35,401	-6,905	6,000	205,080
	8,500	1,500	84,994	269,537	269,537	35,401	-6,905	5,750	205,080
	8,000	2,000	79,994	253,681	253,681	35,401	-6,905	5,500	205,080
	7,500	2,500	74,994	237,825	237,825	35,401	-6,905	5,250	205,080
	7,000	3,000	69,994	221,969	221,969	35,402	-6,905	5,000	205,080
	6,500	3,500	64,994	206,112	206,112	35,402	-6,905	4,750	205,080
	6,000	4,000	59,994	190,256	190,256	35,402	-6,905	4,500	205,080
	5,500	4,500	54,994	174,400	174,400	35,402	-6,905	4,250	205,080
	5,000	5,000	49,994	158,544	158,544	35,402	-6,905	4,000	205,080
	4,500	5,500	44,994	142,688	142,688	35,402	-6,905	3,750	205,080
	4,000	6,000	39,994	126,831	126,831	35,403	-6,905	3,500	205,080
	3,500	6,500	34,994	110,975	110,975	35,403	-6,905	3,250	205,080
	3,000	7,000	29,994	95,119	95,119	35,404	-6,905	3,000	205,080
	2,500	7,500	24,994	79,263	79,263	35,404	-6,905	2,750	205,080
	2,000	8,000	19,994	63,407	63,407	35,405	-6,905	2,500	205,080
	1,500	8,500	14,994	47,550	47,550	35,407	-6,905	2,250	205,080
	1,000	9,000	9,994	31,694	31,694	35,411	-6,905	2,000	205,080
	0,500	9,500	4,994	15,838	15,838	35,422	-6,905	1,750	205,080
	0,101	9,899	1,000	3,171	3,171	35,508	-6,905	1,551	205,080
	0,000	10,000	0,042	0,134	0,134	36,619	-6,872	1,522	93,375

Tank Calibrations - 2BP1E

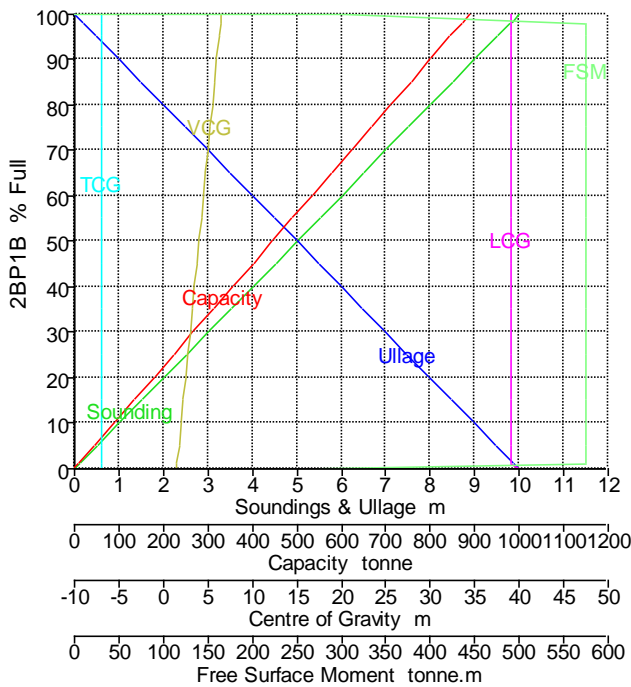
Fluid Type = MUD Specific gravity = 2,8
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2BP1E	10,000	0,000	100,000	317,124	887,947	39,000	6,905	6,500	0,000
	10,000	0,000	99,956	316,984	887,554	39,001	6,905	6,498	301,411
	9,800	0,200	98,000	310,782	870,188	39,001	6,905	6,400	574,223
	9,790	0,210	97,900	310,464	869,300	39,001	6,905	6,395	574,223
	9,500	0,500	95,001	301,272	843,562	39,001	6,905	6,250	574,223
	9,000	1,000	90,001	285,416	799,165	39,001	6,905	6,000	574,223
	8,500	1,500	85,001	269,560	754,768	39,001	6,905	5,750	574,223
	8,000	2,000	80,001	253,704	710,370	39,001	6,905	5,500	574,223
	7,500	2,500	75,001	237,848	665,973	39,001	6,905	5,250	574,223
	7,000	3,000	70,001	221,991	621,576	39,002	6,905	5,000	574,223
	6,500	3,500	65,001	206,135	577,178	39,002	6,905	4,750	574,223
	6,000	4,000	60,001	190,279	532,781	39,002	6,905	4,500	574,223
	5,500	4,500	55,001	174,423	488,384	39,002	6,905	4,250	574,223
	5,000	5,000	50,001	158,567	443,986	39,002	6,905	4,000	574,223
	4,500	5,500	45,001	142,710	399,589	39,002	6,905	3,750	574,223
	4,000	6,000	40,001	126,854	355,191	39,003	6,905	3,500	574,223
	3,500	6,500	35,001	110,998	310,794	39,003	6,905	3,250	574,223
	3,000	7,000	30,001	95,142	266,397	39,004	6,905	3,000	574,223
	2,500	7,500	25,001	79,285	221,999	39,004	6,905	2,750	574,223
	2,000	8,000	20,001	63,429	177,602	39,005	6,905	2,500	574,223
	1,500	8,500	15,001	47,573	133,205	39,007	6,905	2,250	574,223
	1,000	9,000	10,001	31,717	88,807	39,011	6,905	2,000	574,223
	0,500	9,500	5,001	15,861	44,410	39,022	6,905	1,750	574,223
	0,100	9,900	1,000	3,171	8,879	39,108	6,905	1,551	574,223
	0,000	10,000	0,046	0,145	0,406	40,195	6,874	1,521	272,812

Tank Calibrations - 2BP1B

Fluid Type = MUD Specific gravity = 2,8
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



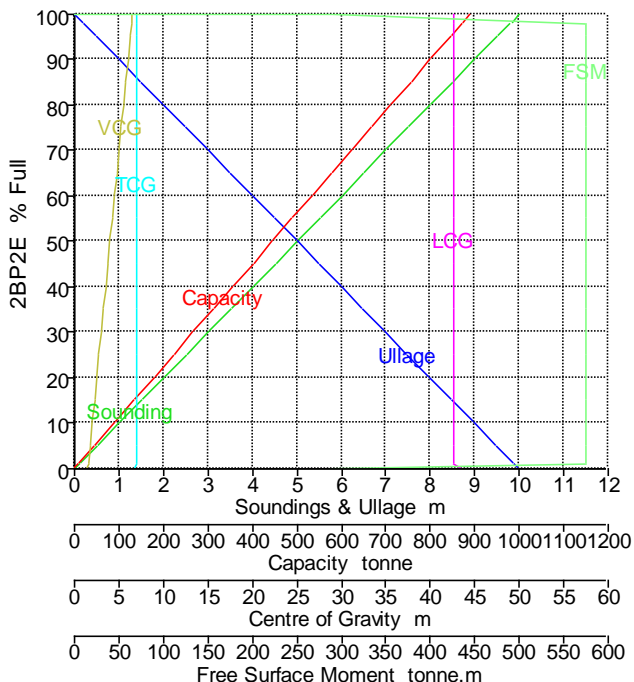
2BP1B
 Initial (upright) Trim: -0,954 m; Heel: 0 deg

- Sounding
- Ullage
- Capacity
- LCG
- TCG
- VCG
- FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2BP1B	10,000	0,000	100,000	317,124	887,947	39,000	-6,905	6,500	0,000
	10,000	0,000	99,956	316,984	887,554	39,001	-6,905	6,498	301,411
	9,800	0,200	98,000	310,782	870,188	39,001	-6,905	6,400	574,223
	9,790	0,210	97,900	310,464	869,300	39,001	-6,905	6,395	574,223
	9,500	0,500	95,001	301,272	843,562	39,001	-6,905	6,250	574,223
	9,000	1,000	90,001	285,416	799,165	39,001	-6,905	6,000	574,223
	8,500	1,500	85,001	269,560	754,768	39,001	-6,905	5,750	574,223
	8,000	2,000	80,001	253,704	710,370	39,001	-6,905	5,500	574,223
	7,500	2,500	75,001	237,848	665,973	39,001	-6,905	5,250	574,223
	7,000	3,000	70,001	221,991	621,576	39,002	-6,905	5,000	574,223
	6,500	3,500	65,001	206,135	577,178	39,002	-6,905	4,750	574,223
	6,000	4,000	60,001	190,279	532,781	39,002	-6,905	4,500	574,223
	5,500	4,500	55,001	174,423	488,384	39,002	-6,905	4,250	574,223
	5,000	5,000	50,001	158,567	443,986	39,002	-6,905	4,000	574,223
	4,500	5,500	45,001	142,710	399,589	39,002	-6,905	3,750	574,223
	4,000	6,000	40,001	126,854	355,191	39,003	-6,905	3,500	574,223
	3,500	6,500	35,001	110,998	310,794	39,003	-6,905	3,250	574,223
	3,000	7,000	30,001	95,142	266,397	39,004	-6,905	3,000	574,223
	2,500	7,500	25,001	79,285	221,999	39,004	-6,905	2,750	574,223
	2,000	8,000	20,001	63,429	177,602	39,005	-6,905	2,500	574,223
	1,500	8,500	15,001	47,573	133,205	39,007	-6,905	2,250	574,223
	1,000	9,000	10,001	31,717	88,807	39,011	-6,905	2,000	574,223
	0,500	9,500	5,001	15,861	44,410	39,022	-6,905	1,750	574,223
	0,100	9,900	1,000	3,171	8,879	39,108	-6,905	1,551	574,223
	0,000	10,000	0,046	0,145	0,406	40,195	-6,874	1,521	272,812

Tank Calibrations - 2BP2E

Fluid Type = MUD Specific gravity = 2,8
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



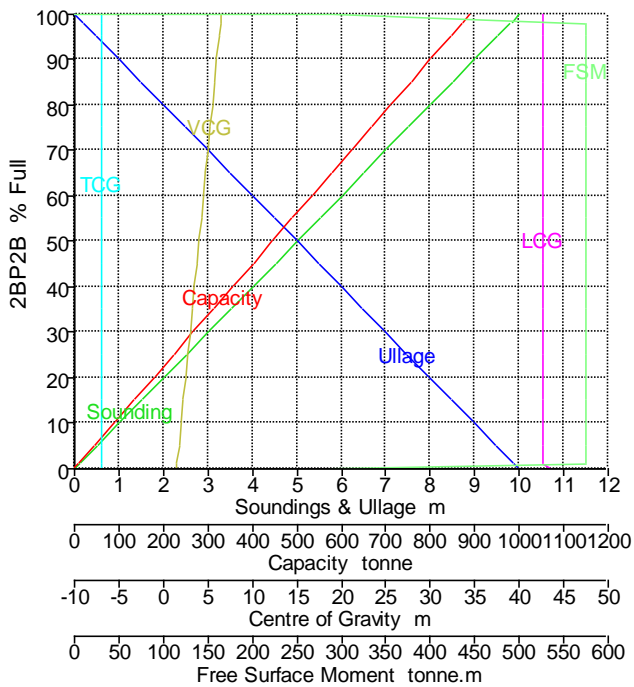
2BP2E
 Initial (upright) Trim: -0,954 m; Heel: 0 deg

- Sounding
- Ullage
- Capacity
- LCG
- TCG
- VCG
- FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2BP2E	10,000	0,000	100,000	317,124	887,947	42,600	6,905	6,500	0,000
	10,000	0,000	99,959	316,995	887,585	42,601	6,905	6,498	290,050
	9,799	0,201	98,000	310,782	870,188	42,601	6,905	6,400	574,223
	9,789	0,211	97,900	310,464	869,300	42,601	6,905	6,395	574,223
	9,500	0,500	95,009	301,295	843,626	42,601	6,905	6,250	574,223
	9,000	1,000	90,009	285,439	799,228	42,601	6,905	6,000	574,223
	8,500	1,500	85,009	269,582	754,831	42,601	6,905	5,750	574,223
	8,000	2,000	80,009	253,726	710,434	42,601	6,905	5,500	574,223
	7,500	2,500	75,009	237,870	666,036	42,601	6,905	5,250	574,223
	7,000	3,000	70,009	222,014	621,639	42,602	6,905	5,000	574,223
	6,500	3,500	65,009	206,158	577,241	42,602	6,905	4,750	574,223
	6,000	4,000	60,009	190,301	532,844	42,602	6,905	4,500	574,223
	5,500	4,500	55,009	174,445	488,447	42,602	6,905	4,250	574,223
	5,000	5,000	50,009	158,589	444,049	42,602	6,905	4,000	574,223
	4,500	5,500	45,009	142,733	399,652	42,602	6,905	3,750	574,223
	4,000	6,000	40,009	126,877	355,255	42,603	6,905	3,500	574,223
	3,500	6,500	35,009	111,020	310,857	42,603	6,905	3,250	574,223
	3,000	7,000	30,009	95,164	266,460	42,604	6,905	3,000	574,223
	2,500	7,500	25,009	79,308	222,063	42,604	6,905	2,750	574,223
	2,000	8,000	20,009	63,452	177,665	42,605	6,905	2,500	574,223
	1,500	8,500	15,009	47,596	133,268	42,607	6,905	2,250	574,223
	1,000	9,000	10,009	31,739	88,871	42,611	6,905	2,000	574,223
	0,500	9,500	5,009	15,883	44,473	42,622	6,905	1,751	574,223
	0,099	9,901	1,000	3,171	8,879	42,708	6,905	1,551	574,223
	0,000	10,000	0,049	0,157	0,438	43,772	6,877	1,520	284,173

Tank Calibrations - 2BP2B

Fluid Type = MUD Specific gravity = 2,8
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



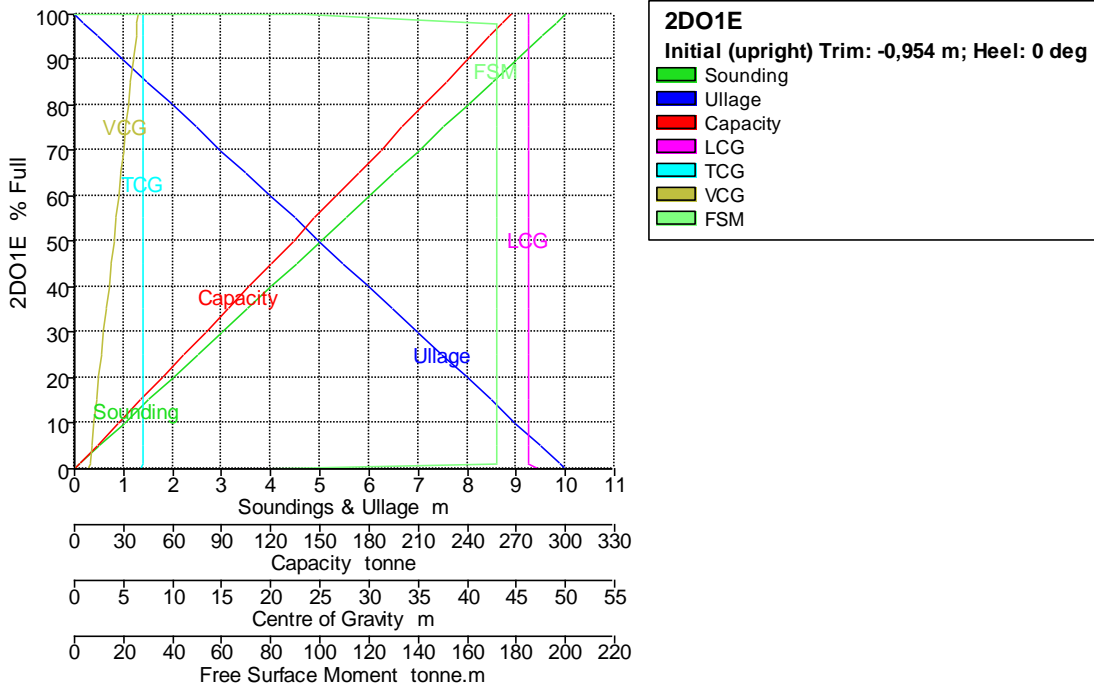
2BP2B
 Initial (upright) Trim: -0,954 m; Heel: 0 deg

- Sounding
- Ullage
- Capacity
- LCG
- TCG
- VCG
- FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2BP2B	10,000	0,000	100,000	317,124	887,947	42,600	-6,905	6,500	0,000
	10,000	0,000	99,959	316,995	887,585	42,601	-6,905	6,498	290,050
	9,799	0,201	98,000	310,782	870,188	42,601	-6,905	6,400	574,223
	9,789	0,211	97,900	310,464	869,300	42,601	-6,905	6,395	574,223
	9,500	0,500	95,009	301,295	843,626	42,601	-6,905	6,250	574,223
	9,000	1,000	90,009	285,439	799,228	42,601	-6,905	6,000	574,223
	8,500	1,500	85,009	269,582	754,831	42,601	-6,905	5,750	574,223
	8,000	2,000	80,009	253,726	710,434	42,601	-6,905	5,500	574,223
	7,500	2,500	75,009	237,870	666,036	42,601	-6,905	5,250	574,223
	7,000	3,000	70,009	222,014	621,639	42,602	-6,905	5,000	574,223
	6,500	3,500	65,009	206,158	577,241	42,602	-6,905	4,750	574,223
	6,000	4,000	60,009	190,301	532,844	42,602	-6,905	4,500	574,223
	5,500	4,500	55,009	174,445	488,447	42,602	-6,905	4,250	574,223
	5,000	5,000	50,009	158,589	444,049	42,602	-6,905	4,000	574,223
	4,500	5,500	45,009	142,733	399,652	42,602	-6,905	3,750	574,223
	4,000	6,000	40,009	126,877	355,255	42,603	-6,905	3,500	574,223
	3,500	6,500	35,009	111,020	310,857	42,603	-6,905	3,250	574,223
	3,000	7,000	30,009	95,164	266,460	42,604	-6,905	3,000	574,223
	2,500	7,500	25,009	79,308	222,063	42,604	-6,905	2,750	574,223
	2,000	8,000	20,009	63,452	177,665	42,605	-6,905	2,500	574,223
	1,500	8,500	15,009	47,596	133,268	42,607	-6,905	2,250	574,223
	1,000	9,000	10,009	31,739	88,871	42,611	-6,905	2,000	574,223
	0,500	9,500	5,009	15,883	44,473	42,622	-6,905	1,751	574,223
	0,099	9,901	1,000	3,171	8,879	42,708	-6,905	1,551	574,223
	0,000	10,000	0,049	0,157	0,438	43,772	-6,877	1,520	284,173

Tank Calibrations - 2DO1E

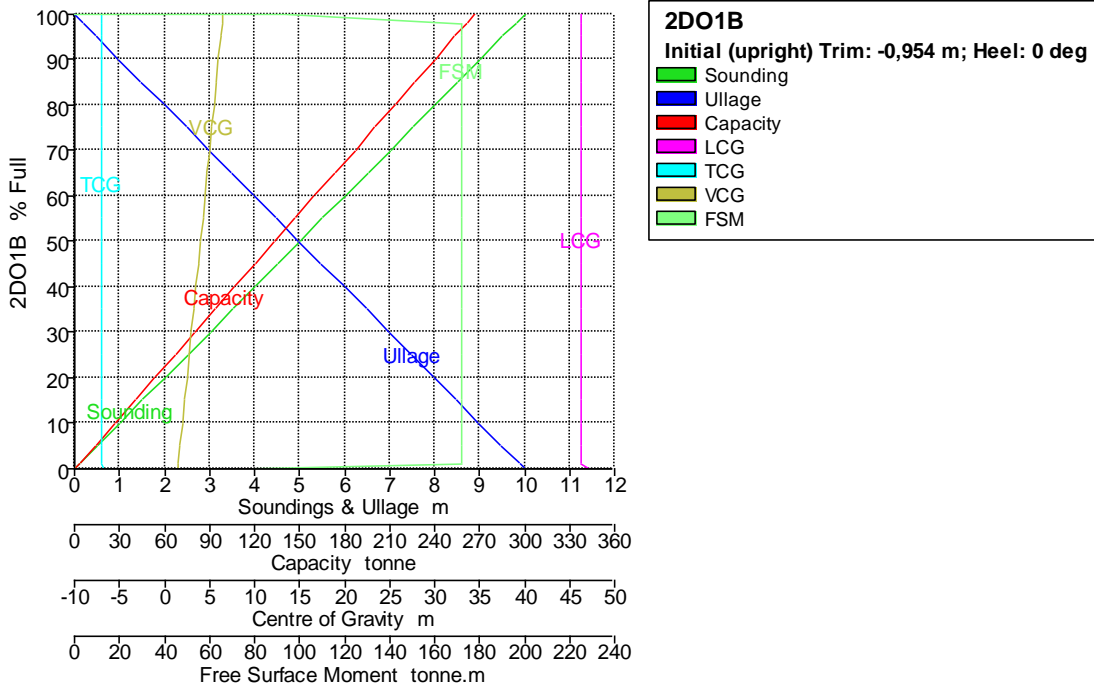
Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2D01E	10,000	0,000	100,000	317,124	266,384	46,200	6,905	6,500	0,000
	10,000	0,000	99,952	316,973	266,257	46,201	6,905	6,498	93,540
	9,801	0,199	98,000	310,782	261,056	46,201	6,905	6,400	172,267
	9,791	0,209	97,900	310,464	260,790	46,201	6,905	6,395	172,267
	9,500	0,500	94,995	301,252	253,051	46,201	6,905	6,250	172,267
	9,000	1,000	89,995	285,395	239,732	46,201	6,905	6,000	172,267
	8,500	1,500	84,995	269,539	226,413	46,201	6,905	5,750	172,267
	8,000	2,000	79,995	253,683	213,094	46,201	6,905	5,500	172,267
	7,500	2,500	74,995	237,827	199,775	46,201	6,905	5,250	172,267
	7,000	3,000	69,995	221,971	186,455	46,202	6,905	5,000	172,267
	6,500	3,500	64,995	206,114	173,136	46,202	6,905	4,750	172,267
	6,000	4,000	59,995	190,258	159,817	46,202	6,905	4,500	172,267
	5,500	4,500	54,995	174,402	146,498	46,202	6,905	4,250	172,267
	5,000	5,000	49,995	158,546	133,178	46,202	6,905	4,000	172,267
	4,500	5,500	44,995	142,690	119,859	46,202	6,905	3,750	172,267
	4,000	6,000	39,995	126,833	106,540	46,203	6,905	3,500	172,267
	3,500	6,500	34,995	110,977	93,221	46,203	6,905	3,250	172,267
	3,000	7,000	29,995	95,121	79,902	46,204	6,905	3,000	172,267
	2,500	7,500	24,995	79,265	66,582	46,204	6,905	2,750	172,267
	2,000	8,000	19,995	63,409	53,263	46,205	6,905	2,500	172,267
	1,500	8,500	14,995	47,552	39,944	46,207	6,905	2,250	172,267
	1,000	9,000	9,995	31,696	26,625	46,211	6,905	2,000	172,267
	0,500	9,500	4,995	15,840	13,306	46,222	6,905	1,750	172,267
	0,101	9,899	1,000	3,171	2,664	46,308	6,905	1,551	172,267
	0,000	10,000	0,042	0,135	0,113	47,417	6,872	1,522	78,727

Tank Calibrations - 2D01B

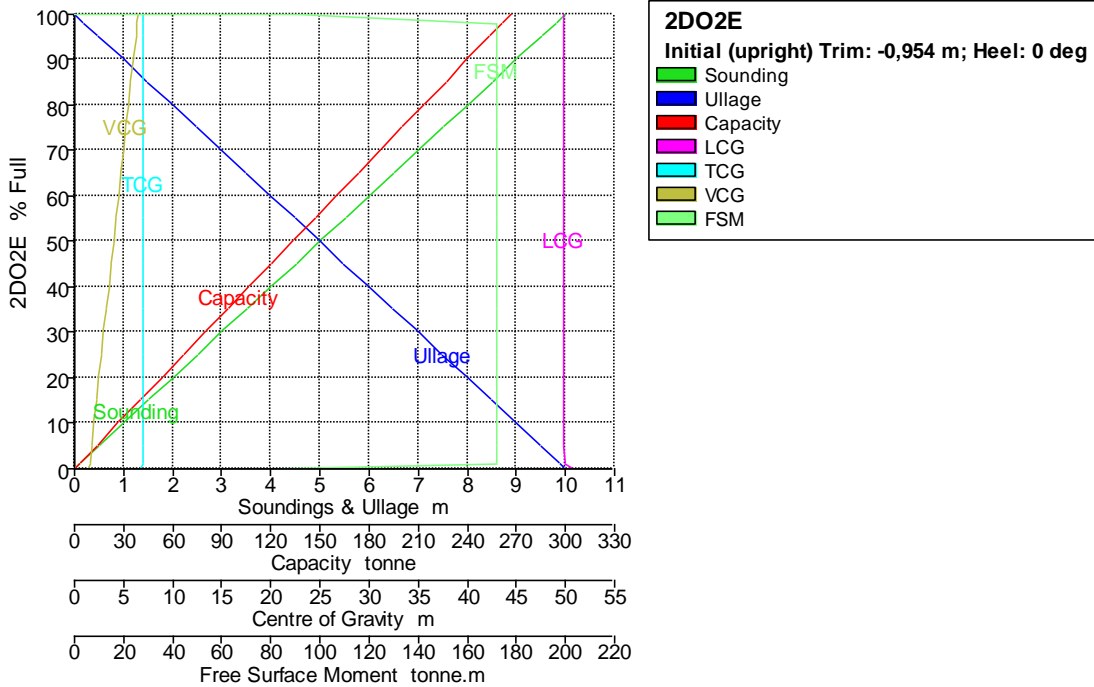
Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DO1B	10,000	0,000	100,000	317,124	266,384	46,200	-6,905	6,500	0,000
	10,000	0,000	99,952	316,973	266,257	46,201	-6,905	6,498	93,540
	9,801	0,199	98,000	310,782	261,056	46,201	-6,905	6,400	172,267
	9,791	0,209	97,900	310,464	260,790	46,201	-6,905	6,395	172,267
	9,500	0,500	94,995	301,252	253,051	46,201	-6,905	6,250	172,267
	9,000	1,000	89,995	285,395	239,732	46,201	-6,905	6,000	172,267
	8,500	1,500	84,995	269,539	226,413	46,201	-6,905	5,750	172,267
	8,000	2,000	79,995	253,683	213,094	46,201	-6,905	5,500	172,267
	7,500	2,500	74,995	237,827	199,775	46,201	-6,905	5,250	172,267
	7,000	3,000	69,995	221,971	186,455	46,202	-6,905	5,000	172,267
	6,500	3,500	64,995	206,114	173,136	46,202	-6,905	4,750	172,267
	6,000	4,000	59,995	190,258	159,817	46,202	-6,905	4,500	172,267
	5,500	4,500	54,995	174,402	146,498	46,202	-6,905	4,250	172,267
	5,000	5,000	49,995	158,546	133,178	46,202	-6,905	4,000	172,267
	4,500	5,500	44,995	142,690	119,859	46,202	-6,905	3,750	172,267
	4,000	6,000	39,995	126,833	106,540	46,203	-6,905	3,500	172,267
	3,500	6,500	34,995	110,977	93,221	46,203	-6,905	3,250	172,267
	3,000	7,000	29,995	95,121	79,902	46,204	-6,905	3,000	172,267
	2,500	7,500	24,995	79,265	66,582	46,204	-6,905	2,750	172,267
	2,000	8,000	19,995	63,409	53,263	46,205	-6,905	2,500	172,267
	1,500	8,500	14,995	47,552	39,944	46,207	-6,905	2,250	172,267
	1,000	9,000	9,995	31,696	26,625	46,211	-6,905	2,000	172,267
	0,500	9,500	4,995	15,840	13,306	46,222	-6,905	1,750	172,267
	0,101	9,899	1,000	3,171	2,664	46,308	-6,905	1,551	172,267
	0,000	10,000	0,042	0,135	0,113	47,417	-6,872	1,522	78,727

Tank Calibrations - 2DO2E

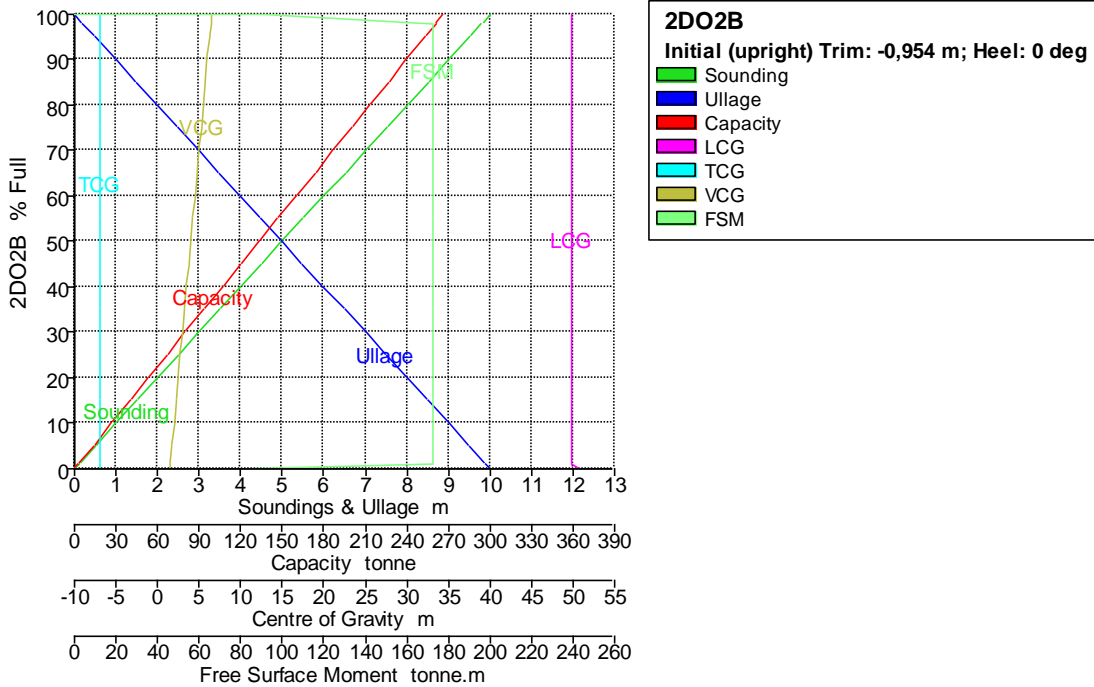
Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DO2E	10,000	0,000	100,000	317,124	266,384	49,800	6,905	6,500	0,000
	10,000	0,000	99,956	316,984	266,267	49,801	6,905	6,498	90,131
	9,800	0,200	98,000	310,782	261,056	49,801	6,905	6,400	172,267
	9,790	0,210	97,900	310,464	260,790	49,801	6,905	6,395	172,267
	9,500	0,500	95,002	301,274	253,070	49,801	6,905	6,250	172,267
	9,000	1,000	90,002	285,418	239,751	49,801	6,905	6,000	172,267
	8,500	1,500	85,002	269,562	226,432	49,801	6,905	5,750	172,267
	8,000	2,000	80,002	253,706	213,113	49,801	6,905	5,500	172,267
	7,500	2,500	75,002	237,849	199,794	49,801	6,905	5,250	172,267
	7,000	3,000	70,002	221,993	186,474	49,802	6,905	5,000	172,267
	6,500	3,500	65,002	206,137	173,155	49,802	6,905	4,750	172,267
	6,000	4,000	60,002	190,281	159,836	49,802	6,905	4,500	172,267
	5,500	4,500	55,002	174,425	146,517	49,802	6,905	4,250	172,267
	5,000	5,000	50,002	158,568	133,197	49,802	6,905	4,000	172,267
	4,500	5,500	45,002	142,712	119,878	49,802	6,905	3,750	172,267
	4,000	6,000	40,002	126,856	106,559	49,803	6,905	3,500	172,267
	3,500	6,500	35,002	111,000	93,240	49,803	6,905	3,250	172,267
	3,000	7,000	30,002	95,144	79,921	49,804	6,905	3,000	172,267
	2,500	7,500	25,002	79,287	66,601	49,804	6,905	2,750	172,267
	2,000	8,000	20,002	63,431	53,282	49,805	6,905	2,500	172,267
	1,500	8,500	15,002	47,575	39,963	49,807	6,905	2,250	172,267
	1,000	9,000	10,002	31,719	26,644	49,811	6,905	2,000	172,267
	0,500	9,500	5,002	15,863	13,325	49,822	6,905	1,750	172,267
	0,100	9,900	1,000	3,171	2,664	49,908	6,905	1,551	172,267
	0,000	10,000	0,046	0,146	0,123	50,993	6,875	1,521	82,136

Tank Calibrations - 2DO2B

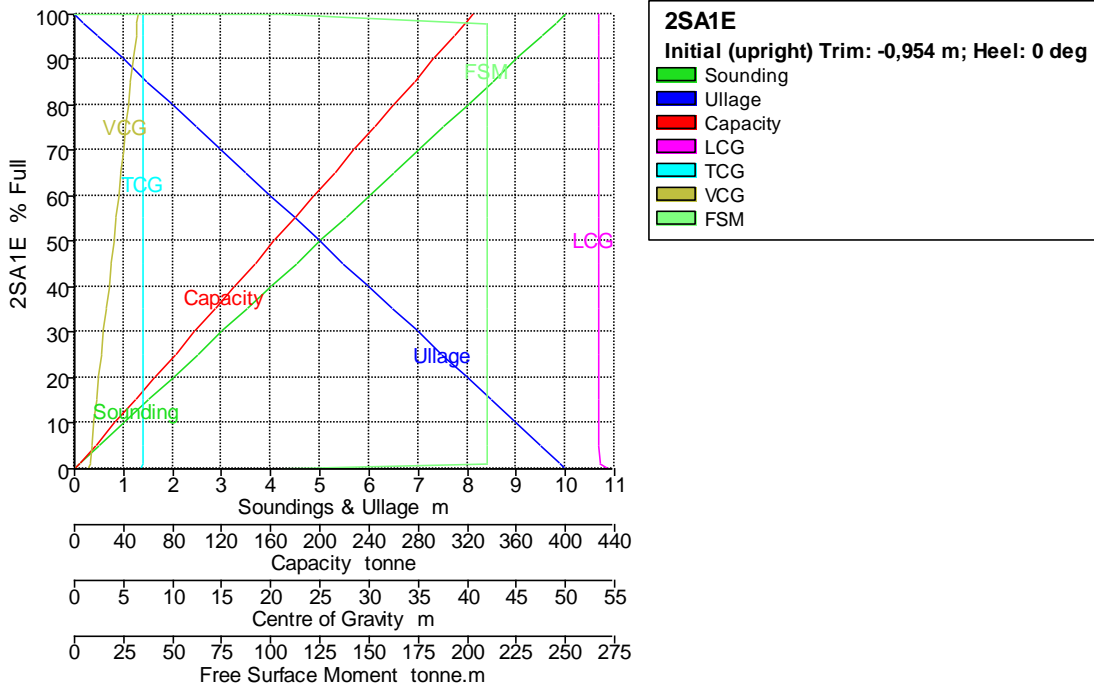
Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2D02B	10,000	0,000	100,000	317,124	266,384	49,800	-6,905	6,500	0,000
	10,000	0,000	99,956	316,984	266,267	49,801	-6,905	6,498	90,131
	9,800	0,200	98,000	310,782	261,056	49,801	-6,905	6,400	172,267
	9,790	0,210	97,900	310,464	260,790	49,801	-6,905	6,395	172,267
	9,500	0,500	95,002	301,274	253,070	49,801	-6,905	6,250	172,267
	9,000	1,000	90,002	285,418	239,751	49,801	-6,905	6,000	172,267
	8,500	1,500	85,002	269,562	226,432	49,801	-6,905	5,750	172,267
	8,000	2,000	80,002	253,706	213,113	49,801	-6,905	5,500	172,267
	7,500	2,500	75,002	237,849	199,794	49,801	-6,905	5,250	172,267
	7,000	3,000	70,002	221,993	186,474	49,802	-6,905	5,000	172,267
	6,500	3,500	65,002	206,137	173,155	49,802	-6,905	4,750	172,267
	6,000	4,000	60,002	190,281	159,836	49,802	-6,905	4,500	172,267
	5,500	4,500	55,002	174,425	146,517	49,802	-6,905	4,250	172,267
	5,000	5,000	50,002	158,568	133,197	49,802	-6,905	4,000	172,267
	4,500	5,500	45,002	142,712	119,878	49,802	-6,905	3,750	172,267
	4,000	6,000	40,002	126,856	106,559	49,803	-6,905	3,500	172,267
	3,500	6,500	35,002	111,000	93,240	49,803	-6,905	3,250	172,267
	3,000	7,000	30,002	95,144	79,921	49,804	-6,905	3,000	172,267
	2,500	7,500	25,002	79,287	66,601	49,804	-6,905	2,750	172,267
	2,000	8,000	20,002	63,431	53,282	49,805	-6,905	2,500	172,267
	1,500	8,500	15,002	47,575	39,963	49,807	-6,905	2,250	172,267
	1,000	9,000	10,002	31,719	26,644	49,811	-6,905	2,000	172,267
	0,500	9,500	5,002	15,863	13,325	49,822	-6,905	1,750	172,267
	0,100	9,900	1,000	3,171	2,664	49,908	-6,905	1,551	172,267
	0,000	10,000	0,046	0,146	0,123	50,993	-6,875	1,521	82,136

Tank Calibrations - 2SA1E

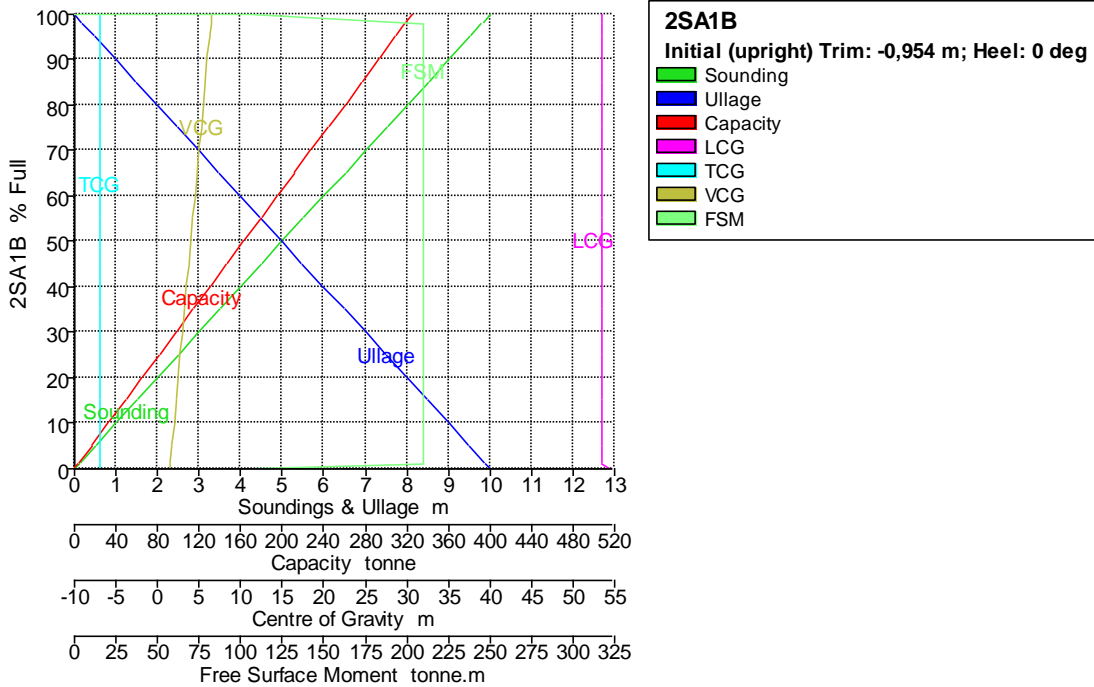
Fluid Type = BRINE Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2SA1E	10,000	0,000	100,000	317,124	325,052	53,400	6,905	6,500	0,000
	10,000	0,000	99,959	316,995	324,920	53,400	6,905	6,498	105,823
	9,799	0,201	98,000	310,782	318,551	53,401	6,905	6,400	210,207
	9,789	0,211	97,900	310,464	318,226	53,401	6,905	6,395	210,207
	9,500	0,500	95,009	301,297	308,829	53,401	6,905	6,250	210,207
	9,000	1,000	90,009	285,441	292,577	53,401	6,905	6,000	210,207
	8,500	1,500	85,009	269,584	276,324	53,401	6,905	5,750	210,207
	8,000	2,000	80,009	253,728	260,071	53,401	6,905	5,500	210,207
	7,500	2,500	75,009	237,872	243,819	53,401	6,905	5,250	210,207
	7,000	3,000	70,009	222,016	227,566	53,402	6,905	5,000	210,207
	6,500	3,500	65,009	206,160	211,314	53,402	6,905	4,750	210,207
	6,000	4,000	60,009	190,303	195,061	53,402	6,905	4,500	210,207
	5,500	4,500	55,009	174,447	178,808	53,402	6,905	4,250	210,207
	5,000	5,000	50,009	158,591	162,556	53,402	6,905	4,000	210,207
	4,500	5,500	45,009	142,735	146,303	53,402	6,905	3,750	210,207
	4,000	6,000	40,009	126,879	130,051	53,403	6,905	3,500	210,207
	3,500	6,500	35,009	111,022	113,798	53,403	6,905	3,250	210,207
	3,000	7,000	30,009	95,166	97,545	53,404	6,905	3,000	210,207
	2,500	7,500	25,009	79,310	81,293	53,404	6,905	2,750	210,207
	2,000	8,000	20,009	63,454	65,040	53,405	6,905	2,500	210,207
	1,500	8,500	15,009	47,598	48,788	53,407	6,905	2,250	210,207
	1,000	9,000	10,009	31,741	32,535	53,411	6,905	2,001	210,207
	0,500	9,500	5,009	15,885	16,282	53,422	6,905	1,751	210,207
	0,099	9,901	1,000	3,171	3,251	53,508	6,905	1,551	210,207
	0,000	10,000	0,050	0,158	0,162	54,570	6,877	1,520	104,384

Tank Calibrations - 2SA1B

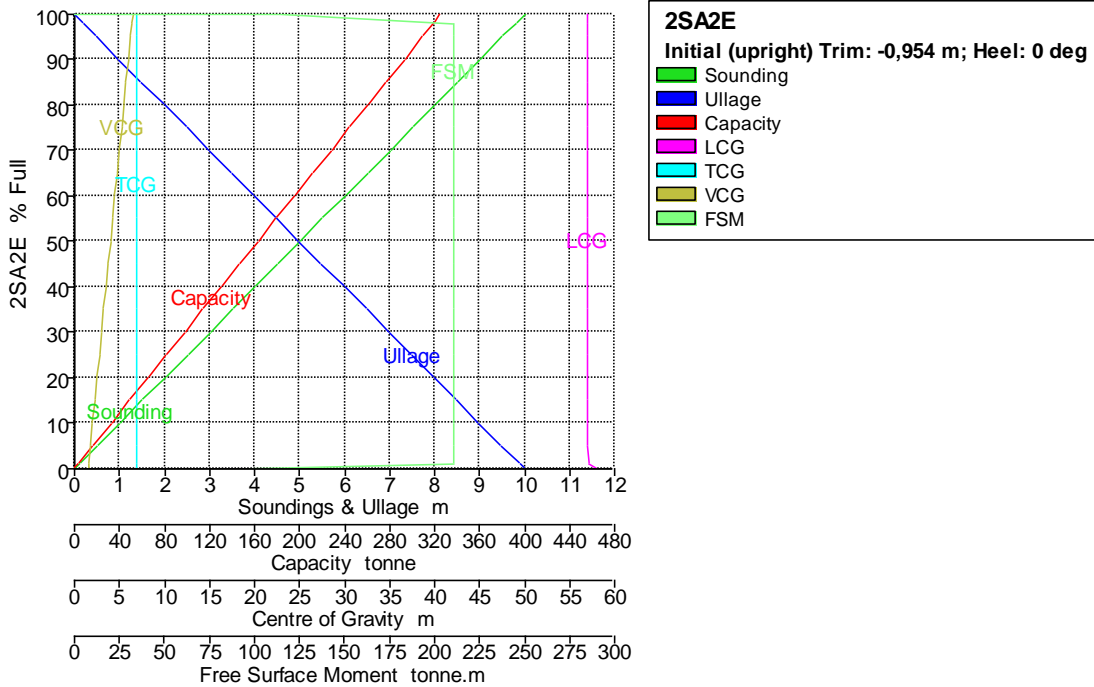
Fluid Type = BRINE Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2SA1B	10,000	0,000	100,000	317,124	325,052	53,400	-6,905	6,500	0,000
	10,000	0,000	99,959	316,995	324,920	53,400	-6,905	6,498	105,823
	9,799	0,201	98,000	310,782	318,551	53,401	-6,905	6,400	210,207
	9,789	0,211	97,900	310,464	318,226	53,401	-6,905	6,395	210,207
	9,500	0,500	95,009	301,297	308,829	53,401	-6,905	6,250	210,207
	9,000	1,000	90,009	285,441	292,577	53,401	-6,905	6,000	210,207
	8,500	1,500	85,009	269,584	276,324	53,401	-6,905	5,750	210,207
	8,000	2,000	80,009	253,728	260,071	53,401	-6,905	5,500	210,207
	7,500	2,500	75,009	237,872	243,819	53,401	-6,905	5,250	210,207
	7,000	3,000	70,009	222,016	227,566	53,402	-6,905	5,000	210,207
	6,500	3,500	65,009	206,160	211,314	53,402	-6,905	4,750	210,207
	6,000	4,000	60,009	190,303	195,061	53,402	-6,905	4,500	210,207
	5,500	4,500	55,009	174,447	178,808	53,402	-6,905	4,250	210,207
	5,000	5,000	50,009	158,591	162,556	53,402	-6,905	4,000	210,207
	4,500	5,500	45,009	142,735	146,303	53,402	-6,905	3,750	210,207
	4,000	6,000	40,009	126,879	130,051	53,403	-6,905	3,500	210,207
	3,500	6,500	35,009	111,022	113,798	53,403	-6,905	3,250	210,207
	3,000	7,000	30,009	95,166	97,545	53,404	-6,905	3,000	210,207
	2,500	7,500	25,009	79,310	81,293	53,404	-6,905	2,750	210,207
	2,000	8,000	20,009	63,454	65,040	53,405	-6,905	2,500	210,207
	1,500	8,500	15,009	47,598	48,788	53,407	-6,905	2,250	210,207
	1,000	9,000	10,009	31,741	32,535	53,411	-6,905	2,001	210,207
	0,500	9,500	5,009	15,885	16,282	53,422	-6,905	1,751	210,207
	0,099	9,901	1,000	3,171	3,251	53,508	-6,905	1,551	210,207
	0,000	10,000	0,050	0,158	0,162	54,570	-6,877	1,520	104,384

Tank Calibrations - 2SA2E

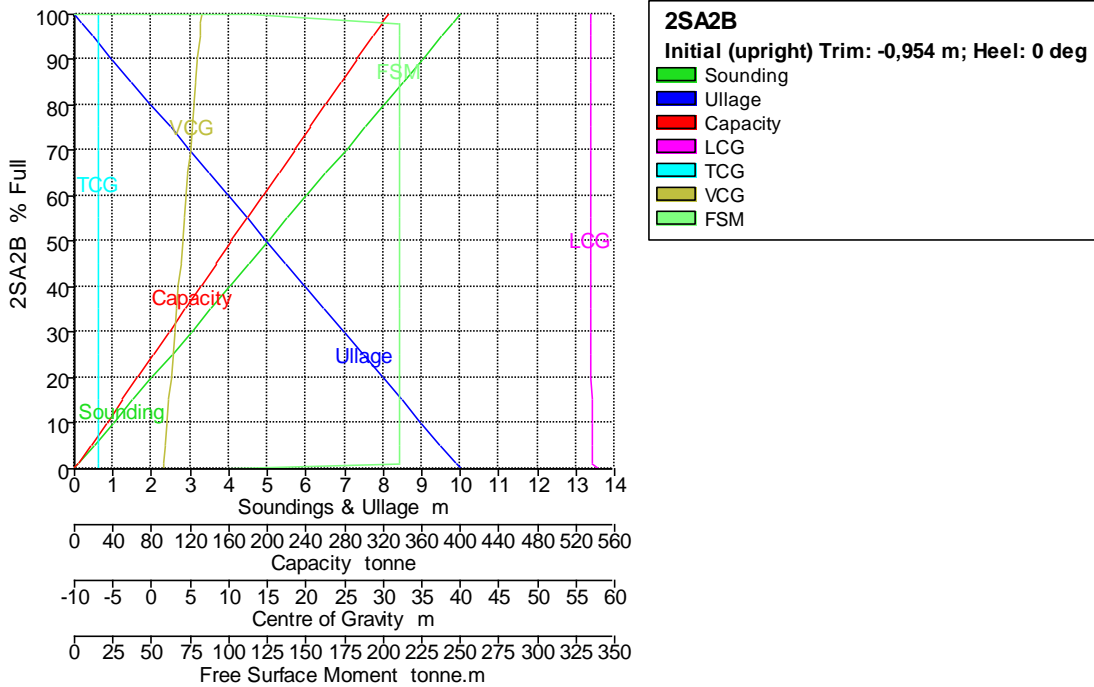
Fluid Type = BRINE Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2SA2E	10,000	0,000	100,000	317,124	325,052	57,000	6,905	6,500	0,000
	10,000	0,000	99,953	316,974	324,898	57,001	6,905	6,498	113,784
	9,800	0,200	98,000	310,782	318,551	57,001	6,905	6,400	210,207
	9,790	0,210	97,900	310,464	318,226	57,001	6,905	6,395	210,207
	9,500	0,500	94,996	301,254	308,785	57,001	6,905	6,250	210,207
	9,000	1,000	89,996	285,397	292,532	57,001	6,905	6,000	210,207
	8,500	1,500	84,996	269,541	276,280	57,001	6,905	5,750	210,207
	8,000	2,000	79,996	253,685	260,027	57,001	6,905	5,500	210,207
	7,500	2,500	74,996	237,829	243,775	57,001	6,905	5,250	210,207
	7,000	3,000	69,996	221,973	227,522	57,002	6,905	5,000	210,207
	6,500	3,500	64,996	206,116	211,269	57,002	6,905	4,750	210,207
	6,000	4,000	59,996	190,260	195,017	57,002	6,905	4,500	210,207
	5,500	4,500	54,996	174,404	178,764	57,002	6,905	4,250	210,207
	5,000	5,000	49,996	158,548	162,511	57,002	6,905	4,000	210,207
	4,500	5,500	44,996	142,692	146,259	57,002	6,905	3,750	210,207
	4,000	6,000	39,996	126,835	130,006	57,003	6,905	3,500	210,207
	3,500	6,500	34,996	110,979	113,754	57,003	6,905	3,250	210,207
	3,000	7,000	29,996	95,123	97,501	57,004	6,905	3,000	210,207
	2,500	7,500	24,996	79,267	81,248	57,004	6,905	2,750	210,207
	2,000	8,000	19,996	63,411	64,996	57,005	6,905	2,500	210,207
	1,500	8,500	14,996	47,554	48,743	57,007	6,905	2,250	210,207
	1,000	9,000	9,996	31,698	32,491	57,011	6,905	2,000	210,207
	0,500	9,500	4,996	15,842	16,238	57,022	6,905	1,750	210,207
	0,100	9,900	1,000	3,171	3,251	57,108	6,905	1,551	210,207
	0,000	10,000	0,043	0,136	0,139	58,215	6,872	1,522	96,423

Tank Calibrations - 2SA2B

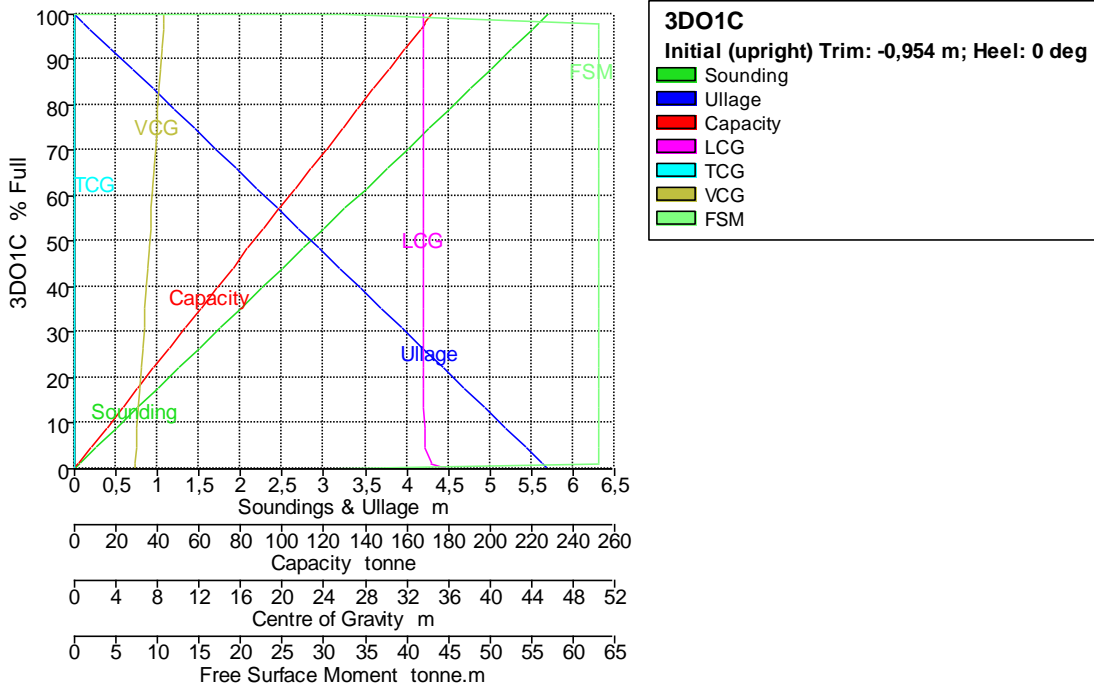
Fluid Type = BRINE Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2SA2B	10,000	0,000	100,000	317,124	325,052	57,000	-6,905	6,500	0,000
	10,000	0,000	99,953	316,974	324,898	57,001	-6,905	6,498	113,784
	9,800	0,200	98,000	310,782	318,551	57,001	-6,905	6,400	210,207
	9,790	0,210	97,900	310,464	318,226	57,001	-6,905	6,395	210,207
	9,500	0,500	94,996	301,254	308,785	57,001	-6,905	6,250	210,207
	9,000	1,000	89,996	285,397	292,532	57,001	-6,905	6,000	210,207
	8,500	1,500	84,996	269,541	276,280	57,001	-6,905	5,750	210,207
	8,000	2,000	79,996	253,685	260,027	57,001	-6,905	5,500	210,207
	7,500	2,500	74,996	237,829	243,775	57,001	-6,905	5,250	210,207
	7,000	3,000	69,996	221,973	227,522	57,002	-6,905	5,000	210,207
	6,500	3,500	64,996	206,116	211,269	57,002	-6,905	4,750	210,207
	6,000	4,000	59,996	190,260	195,017	57,002	-6,905	4,500	210,207
	5,500	4,500	54,996	174,404	178,764	57,002	-6,905	4,250	210,207
	5,000	5,000	49,996	158,548	162,511	57,002	-6,905	4,000	210,207
	4,500	5,500	44,996	142,692	146,259	57,002	-6,905	3,750	210,207
	4,000	6,000	39,996	126,835	130,006	57,003	-6,905	3,500	210,207
	3,500	6,500	34,996	110,979	113,754	57,003	-6,905	3,250	210,207
	3,000	7,000	29,996	95,123	97,501	57,004	-6,905	3,000	210,207
	2,500	7,500	24,996	79,267	81,248	57,004	-6,905	2,750	210,207
	2,000	8,000	19,996	63,411	64,996	57,005	-6,905	2,500	210,207
	1,500	8,500	14,996	47,554	48,743	57,007	-6,905	2,250	210,207
	1,000	9,000	9,996	31,698	32,491	57,011	-6,905	2,000	210,207
	0,500	9,500	4,996	15,842	16,238	57,022	-6,905	1,750	210,207
	0,100	9,900	1,000	3,171	3,251	57,108	-6,905	1,551	210,207
	0,000	10,000	0,043	0,136	0,139	58,215	-6,872	1,522	96,423

Tank Calibrations - 3DO1C

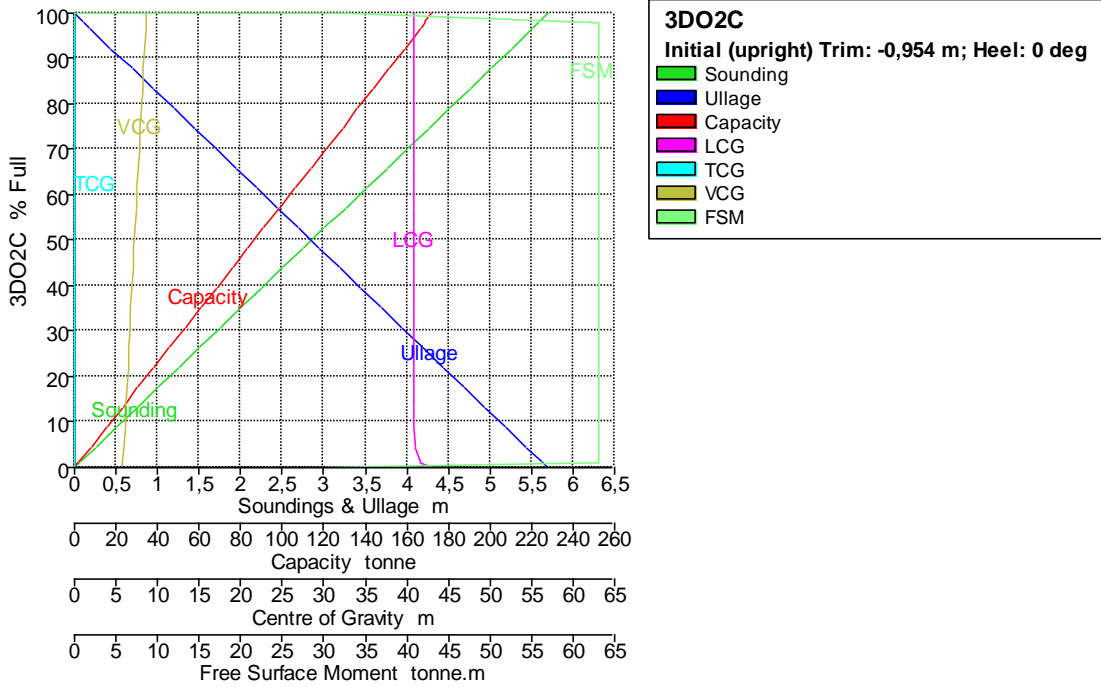
Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3DO1C	5,700	0,000	100,000	205,200	172,368	33,600	0,000	8,650	0,000
	5,700	0,000	99,843	204,878	172,098	33,604	0,000	8,646	32,313
	5,586	0,114	98,000	201,096	168,921	33,608	0,000	8,593	63,003
	5,580	0,120	97,900	200,891	168,748	33,608	0,000	8,590	63,003
	5,500	0,200	96,493	198,004	166,323	33,608	0,000	8,550	63,003
	5,250	0,450	92,107	189,004	158,763	33,608	0,000	8,425	63,003
	5,000	0,700	87,721	180,004	151,203	33,609	0,000	8,300	63,003
	4,750	0,950	83,335	171,004	143,643	33,609	0,000	8,175	63,003
	4,500	1,200	78,949	162,004	136,083	33,610	0,000	8,050	63,003
	4,250	1,450	74,563	153,004	128,523	33,610	0,000	7,925	63,003
	4,000	1,700	70,177	144,004	120,963	33,611	0,000	7,800	63,003
	3,750	1,950	65,791	135,004	113,403	33,612	0,000	7,675	63,003
	3,500	2,200	61,405	126,004	105,843	33,612	0,000	7,550	63,003
	3,250	2,450	57,019	117,004	98,283	33,613	0,000	7,425	63,003
	3,000	2,700	52,634	108,004	90,723	33,614	0,000	7,300	63,003
	2,750	2,950	48,248	99,004	83,163	33,616	0,000	7,175	63,003
	2,500	3,200	43,862	90,004	75,603	33,617	0,000	7,050	63,003
	2,250	3,450	39,476	81,004	68,043	33,619	0,000	6,925	63,003
	2,000	3,700	35,090	72,004	60,483	33,622	0,000	6,800	63,003
	1,750	3,950	30,704	63,004	52,923	33,625	0,000	6,675	63,003
	1,500	4,200	26,318	54,004	45,363	33,629	0,000	6,550	63,003
	1,250	4,450	21,932	45,004	37,803	33,635	0,000	6,425	63,003
	1,000	4,700	17,546	36,004	30,243	33,643	0,000	6,300	63,003
	0,750	4,950	13,160	27,004	22,683	33,658	0,000	6,175	63,003
	0,500	5,200	8,774	18,004	15,123	33,686	0,000	6,050	63,003
	0,250	5,450	4,388	9,004	7,563	33,773	0,000	5,926	63,003
	0,057	5,643	1,000	2,052	1,724	34,358	0,000	5,832	63,003
	0,000	5,700	0,159	0,326	0,274	35,996	0,000	5,811	30,690

Tank Calibrations - 3DO2C

Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



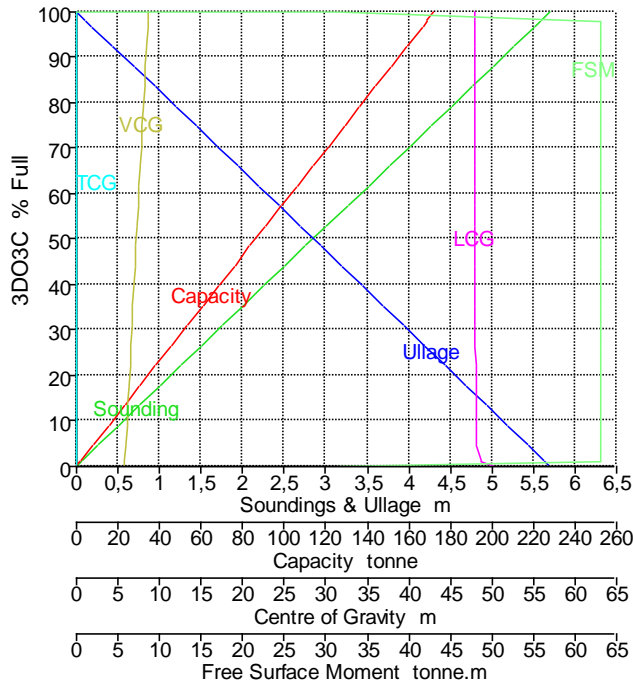
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3DO2C	5,700	0,000	100,000	205,200	172,368	40,800	0,000	8,650	0,000
	5,700	0,000	99,837	204,866	172,088	40,804	0,000	8,645	32,883
	5,587	0,113	98,000	201,096	168,921	40,808	0,000	8,593	63,003
	5,581	0,119	97,900	200,891	168,748	40,808	0,000	8,590	63,003
	5,500	0,200	96,482	197,981	166,304	40,808	0,000	8,550	63,003
	5,250	0,450	92,096	188,981	158,744	40,808	0,000	8,425	63,003
	5,000	0,700	87,710	179,981	151,184	40,809	0,000	8,300	63,003
	4,750	0,950	83,324	170,981	143,624	40,809	0,000	8,175	63,003
	4,500	1,200	78,938	161,981	136,064	40,810	0,000	8,050	63,003
	4,250	1,450	74,552	152,981	128,504	40,810	0,000	7,925	63,003
	4,000	1,700	70,166	143,981	120,944	40,811	0,000	7,800	63,003
	3,750	1,950	65,780	134,981	113,384	40,812	0,000	7,675	63,003
	3,500	2,200	61,394	125,981	105,824	40,812	0,000	7,550	63,003
	3,250	2,450	57,008	116,981	98,264	40,813	0,000	7,425	63,003
	3,000	2,700	52,622	107,981	90,704	40,814	0,000	7,300	63,003
	2,750	2,950	48,236	98,981	83,144	40,816	0,000	7,175	63,003
	2,500	3,200	43,850	89,981	75,584	40,817	0,000	7,050	63,003
	2,250	3,450	39,464	80,981	68,024	40,819	0,000	6,925	63,003
	2,000	3,700	35,078	71,981	60,464	40,822	0,000	6,800	63,003
	1,750	3,950	30,692	62,981	52,904	40,825	0,000	6,675	63,003
	1,500	4,200	26,306	53,981	45,344	40,829	0,000	6,550	63,003
	1,250	4,450	21,920	44,981	37,784	40,835	0,000	6,425	63,003
	1,000	4,700	17,534	35,981	30,224	40,843	0,000	6,300	63,003
	0,750	4,950	13,148	26,981	22,664	40,858	0,000	6,175	63,003
	0,500	5,200	8,762	17,981	15,104	40,886	0,000	6,050	63,003
	0,250	5,450	4,376	8,981	7,544	40,973	0,000	5,926	63,003
	0,058	5,642	1,000	2,052	1,724	41,558	0,000	5,832	63,003
	0,000	5,700	0,153	0,314	0,264	43,218	0,000	5,811	30,121

Tank Calibrations - 3DO3C

Fluid Type = Diesel OIL Specific gravity = 0,84

Permeability = 100 %

Trim = -0,954 m (+ve by stern); Heel = 0 deg



3DO3C
Initial (upright) Trim: -0,954 m; Heel: 0 deg

- Sounding
- Ullage
- Capacity
- LCG
- TCG
- VCG
- FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3DO3C	5,700	0,000	100,000	205,200	172,368	48,000	0,000	8,650	0,000
	5,700	0,000	99,850	204,892	172,109	48,004	0,000	8,646	31,636
	5,585	0,115	98,000	201,096	168,921	48,008	0,000	8,593	63,003
	5,579	0,121	97,900	200,891	168,748	48,008	0,000	8,590	63,003
	5,500	0,200	96,507	198,032	166,347	48,008	0,000	8,550	63,003
	5,250	0,450	92,121	189,032	158,787	48,008	0,000	8,425	63,003
	5,000	0,700	87,735	180,032	151,227	48,009	0,000	8,300	63,003
	4,750	0,950	83,349	171,032	143,667	48,009	0,000	8,175	63,003
	4,500	1,200	78,963	162,032	136,107	48,010	0,000	8,050	63,003
	4,250	1,450	74,577	153,032	128,547	48,010	0,000	7,925	63,003
	4,000	1,700	70,191	144,032	120,987	48,011	0,000	7,800	63,003
	3,750	1,950	65,805	135,032	113,427	48,012	0,000	7,675	63,003
	3,500	2,200	61,419	126,032	105,867	48,012	0,000	7,551	63,003
	3,250	2,450	57,033	117,032	98,307	48,013	0,000	7,426	63,003
	3,000	2,700	52,647	108,032	90,747	48,014	0,000	7,301	63,003
	2,750	2,950	48,261	99,032	83,187	48,016	0,000	7,176	63,003
	2,500	3,200	43,875	90,032	75,627	48,017	0,000	7,051	63,003
	2,250	3,450	39,489	81,032	68,067	48,019	0,000	6,926	63,003
	2,000	3,700	35,103	72,032	60,507	48,022	0,000	6,801	63,003
	1,750	3,950	30,717	63,032	52,947	48,025	0,000	6,676	63,003
	1,500	4,200	26,331	54,032	45,387	48,029	0,000	6,551	63,003
	1,250	4,450	21,945	45,032	37,827	48,035	0,000	6,426	63,003
	1,000	4,700	17,559	36,032	30,267	48,043	0,000	6,301	63,003
	0,750	4,950	13,173	27,032	22,707	48,058	0,000	6,176	63,003
	0,500	5,200	8,787	18,032	15,147	48,086	0,000	6,051	63,003
	0,250	5,450	4,401	9,032	7,587	48,172	0,000	5,926	63,003

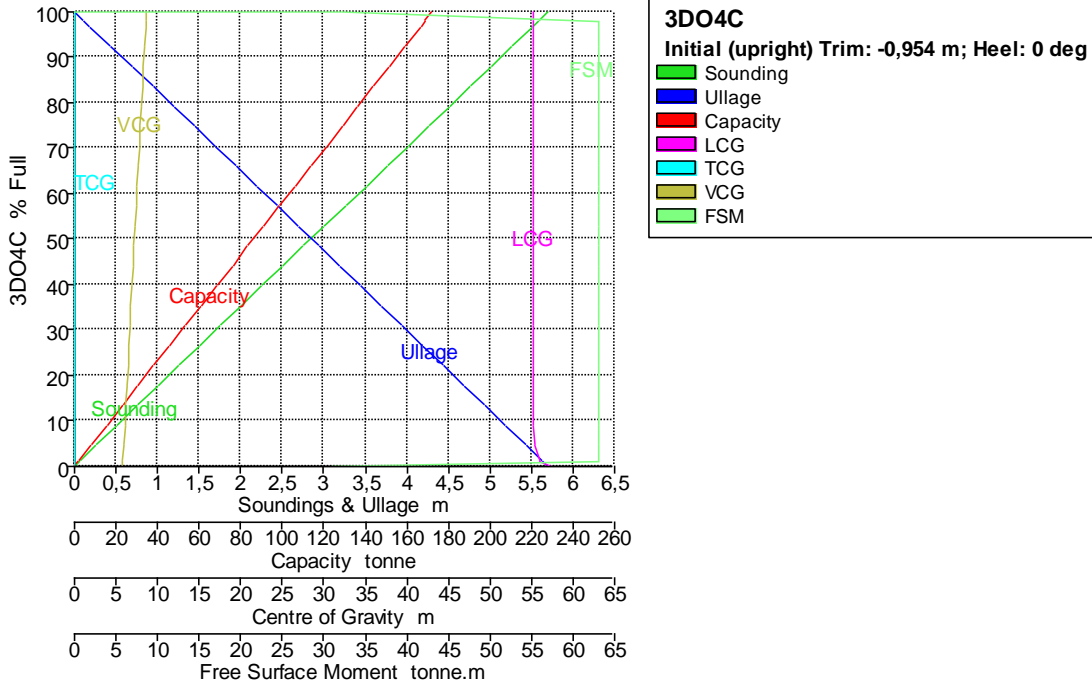
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,056	5,644	1,000	2,052	1,724	48,758	0,000	5,832	63,003
	0,000	5,700	0,166	0,340	0,286	50,371	0,000	5,812	31,367

Tank Calibrations - 3DO4C

Fluid Type = Diesel OIL Specific gravity = 0,84

Permeability = 100 %

Trim = -0,954 m (+ve by stern); Heel = 0 deg

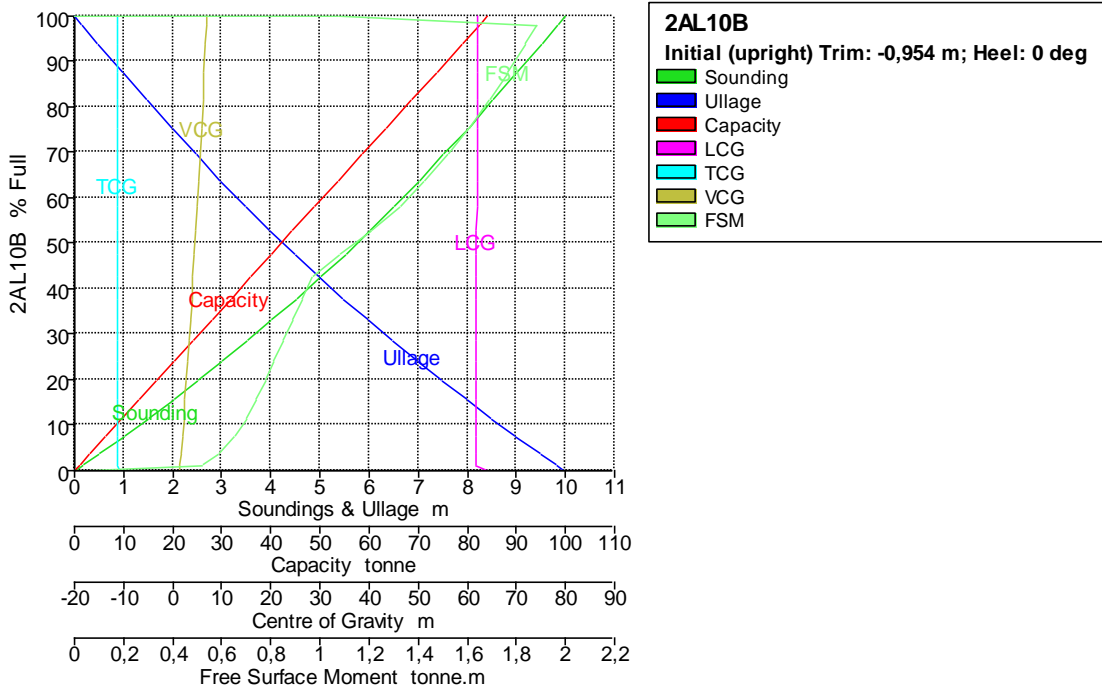


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3DO4C	5,700	0,000	100,000	205,200	172,368	55,200	0,000	8,650	0,000
	5,700	0,000	99,844	204,880	172,099	55,204	0,000	8,646	32,206
	5,586	0,114	98,000	201,096	168,921	55,208	0,000	8,593	63,003
	5,580	0,120	97,900	200,891	168,748	55,208	0,000	8,590	63,003
	5,500	0,200	96,495	198,008	166,327	55,208	0,000	8,550	63,003
	5,250	0,450	92,109	189,008	158,767	55,208	0,000	8,425	63,003
	5,000	0,700	87,723	180,008	151,207	55,209	0,000	8,300	63,003
	4,750	0,950	83,337	171,008	143,647	55,209	0,000	8,175	63,003
	4,500	1,200	78,951	162,008	136,087	55,210	0,000	8,050	63,003
	4,250	1,450	74,565	153,008	128,527	55,210	0,000	7,925	63,003
	4,000	1,700	70,180	144,008	120,967	55,211	0,000	7,800	63,003
	3,750	1,950	65,794	135,008	113,407	55,212	0,000	7,675	63,003
	3,500	2,200	61,408	126,008	105,847	55,212	0,000	7,550	63,003
	3,250	2,450	57,022	117,008	98,287	55,213	0,000	7,425	63,003
	3,000	2,700	52,636	108,008	90,727	55,214	0,000	7,300	63,003
	2,750	2,950	48,250	99,008	83,167	55,216	0,000	7,175	63,003
	2,500	3,200	43,864	90,008	75,607	55,217	0,000	7,050	63,003
	2,250	3,450	39,478	81,008	68,047	55,219	0,000	6,925	63,003
	2,000	3,700	35,092	72,008	60,487	55,222	0,000	6,800	63,003
	1,750	3,950	30,706	63,008	52,927	55,225	0,000	6,675	63,003

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	1,500	4,200	26,320	54,008	45,367	55,229	0,000	6,550	63,003
	1,250	4,450	21,934	45,008	37,807	55,235	0,000	6,425	63,003
	1,000	4,700	17,548	36,008	30,247	55,243	0,000	6,300	63,003
	0,750	4,950	13,162	27,008	22,687	55,258	0,000	6,175	63,003
	0,500	5,200	8,776	18,008	15,127	55,286	0,000	6,051	63,003
	0,250	5,450	4,390	9,008	7,567	55,373	0,000	5,926	63,003
	0,057	5,643	1,000	2,052	1,724	55,958	0,000	5,832	63,003
	0,000	5,700	0,160	0,328	0,276	57,592	0,000	5,811	30,797

Tank Calibrations - 2AL10B

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg

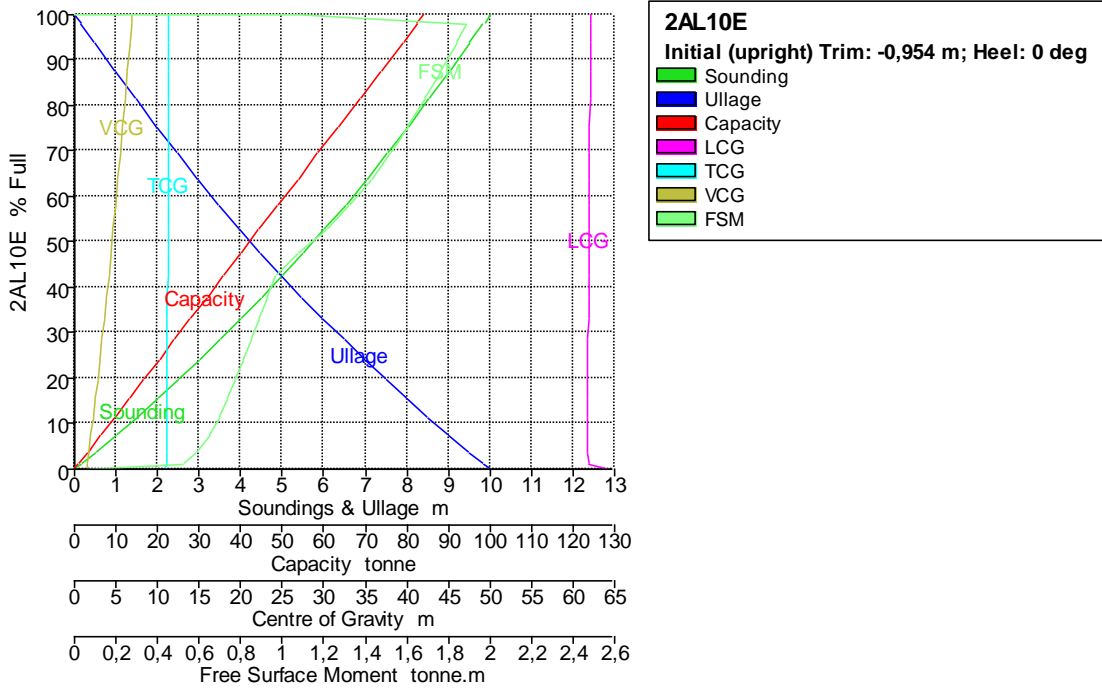


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL10B	10,000	0,000	100,000	82,201	84,256	62,076	-11,305	6,996	0,000
	10,000	0,000	99,878	82,101	84,154	62,078	-11,304	6,990	1,079
	9,844	0,156	98,000	80,557	82,571	62,076	-11,302	6,906	1,886
	9,836	0,164	97,900	80,475	82,487	62,076	-11,302	6,901	1,885
	9,500	0,500	93,658	76,988	78,913	62,065	-11,296	6,708	1,837
	9,000	1,000	87,420	71,861	73,657	62,048	-11,288	6,419	1,763
	8,500	1,500	81,281	66,814	68,484	62,030	-11,279	6,130	1,685
	8,000	2,000	75,249	61,855	63,402	62,011	-11,270	5,840	1,603
	7,500	2,500	69,336	56,995	58,420	61,990	-11,261	5,549	1,516
	7,000	3,000	63,558	52,246	53,552	61,969	-11,252	5,259	1,423
	6,500	3,500	57,935	47,624	48,814	61,946	-11,242	4,968	1,322
	6,000	4,000	52,496	43,153	44,232	61,923	-11,233	4,680	1,209
	5,500	4,500	47,289	38,872	39,844	61,902	-11,226	4,397	1,075
	5,000	5,000	42,375	34,833	35,704	61,884	-11,220	4,125	0,966

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	4,500	5,500	37,610	30,916	31,689	61,866	-11,214	3,856	0,925
	4,000	6,000	32,948	27,083	27,761	61,849	-11,209	3,588	0,886
	3,500	6,500	28,389	23,336	23,920	61,830	-11,203	3,322	0,849
	3,000	7,000	23,936	19,676	20,167	61,811	-11,197	3,057	0,813
	2,500	7,500	19,589	16,103	16,505	61,791	-11,191	2,793	0,776
	2,000	8,000	15,354	12,622	12,937	61,770	-11,184	2,531	0,739
	1,500	8,500	11,241	9,240	9,471	61,748	-11,176	2,269	0,699
	1,000	9,000	7,267	5,974	6,123	61,726	-11,166	2,009	0,650
	0,500	9,500	3,471	2,853	2,925	61,718	-11,152	1,751	0,586
	0,155	9,845	1,000	0,822	0,843	61,843	-11,131	1,575	0,521
	0,000	10,000	0,030	0,025	0,025	64,472	-10,904	1,518	0,061

Tank Calibrations - 2AL10E

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg

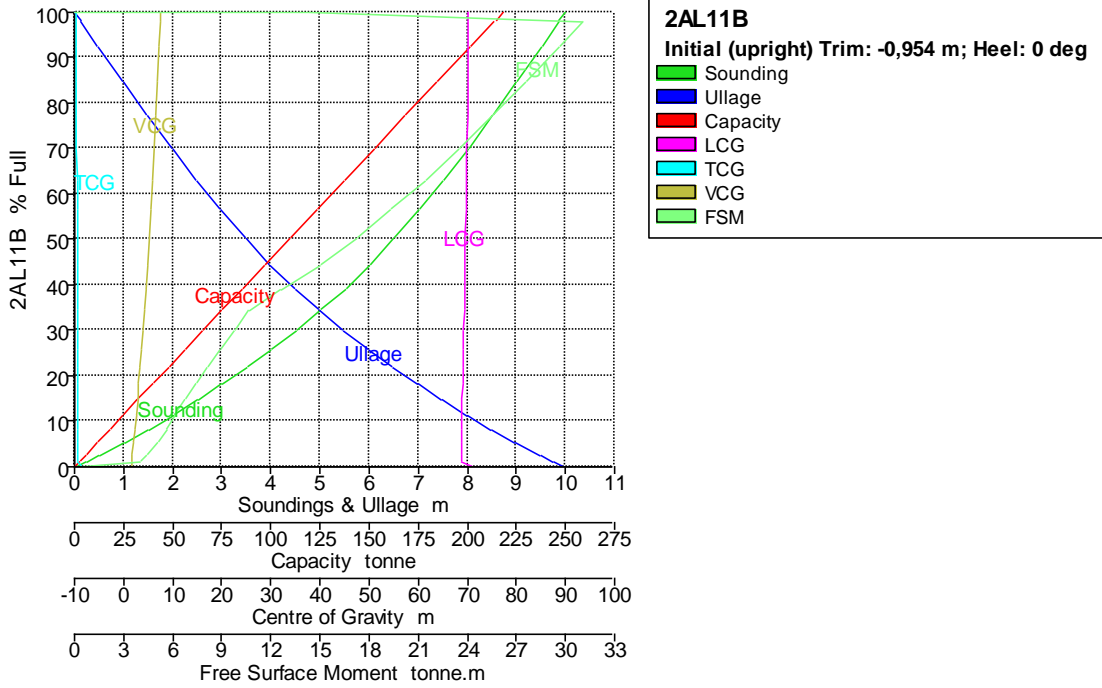


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL10E	10,000	0,000	100,000	82,201	84,256	62,076	11,305	6,996	0,000
	10,000	0,000	99,878	82,101	84,154	62,078	11,304	6,990	1,079
	9,844	0,156	98,000	80,557	82,571	62,076	11,302	6,906	1,886
	9,836	0,164	97,900	80,475	82,487	62,076	11,302	6,901	1,885
	9,500	0,500	93,658	76,988	78,913	62,065	11,296	6,708	1,837
	9,000	1,000	87,420	71,861	73,657	62,048	11,288	6,419	1,763
	8,500	1,500	81,281	66,814	68,484	62,030	11,279	6,130	1,685
	8,000	2,000	75,249	61,855	63,402	62,011	11,270	5,840	1,603
	7,500	2,500	69,336	56,995	58,420	61,990	11,261	5,549	1,516
	7,000	3,000	63,558	52,246	53,552	61,969	11,252	5,259	1,423
	6,500	3,500	57,935	47,624	48,814	61,946	11,242	4,968	1,322

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	6,000	4,000	52,496	43,153	44,232	61,923	11,233	4,680	1,209
	5,500	4,500	47,289	38,872	39,844	61,902	11,226	4,397	1,075
	5,000	5,000	42,375	34,833	35,704	61,884	11,220	4,125	0,966
	4,500	5,500	37,610	30,916	31,689	61,866	11,214	3,856	0,925
	4,000	6,000	32,948	27,083	27,761	61,849	11,209	3,588	0,886
	3,500	6,500	28,389	23,336	23,920	61,830	11,203	3,322	0,849
	3,000	7,000	23,936	19,676	20,167	61,811	11,197	3,057	0,813
	2,500	7,500	19,589	16,103	16,505	61,791	11,191	2,793	0,776
	2,000	8,000	15,354	12,622	12,937	61,770	11,184	2,531	0,739
	1,500	8,500	11,241	9,240	9,471	61,748	11,176	2,269	0,699
	1,000	9,000	7,267	5,974	6,123	61,726	11,166	2,009	0,650
	0,500	9,500	3,471	2,853	2,925	61,718	11,152	1,751	0,586
	0,155	9,845	1,000	0,822	0,843	61,843	11,131	1,575	0,521
	0,000	10,000	0,030	0,025	0,025	64,472	10,904	1,518	0,061

Tank Calibrations - 2AL11B

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL11B	10,000	0,000	100,000	212,833	218,153	70,249	-9,657	7,517	0,000
	10,000	0,000	99,885	212,587	217,902	70,252	-9,656	7,513	14,347
	9,862	0,138	98,000	208,576	213,790	70,248	-9,649	7,437	31,064
	9,856	0,144	97,900	208,363	213,572	70,247	-9,649	7,433	31,038
	9,500	0,500	92,266	196,373	201,282	70,199	-9,628	7,204	29,589
	9,000	1,000	84,544	179,937	184,435	70,126	-9,599	6,879	27,549
	8,500	1,500	77,069	164,028	168,129	70,046	-9,569	6,550	25,505
	8,000	2,000	69,862	148,690	152,407	69,960	-9,539	6,219	23,457

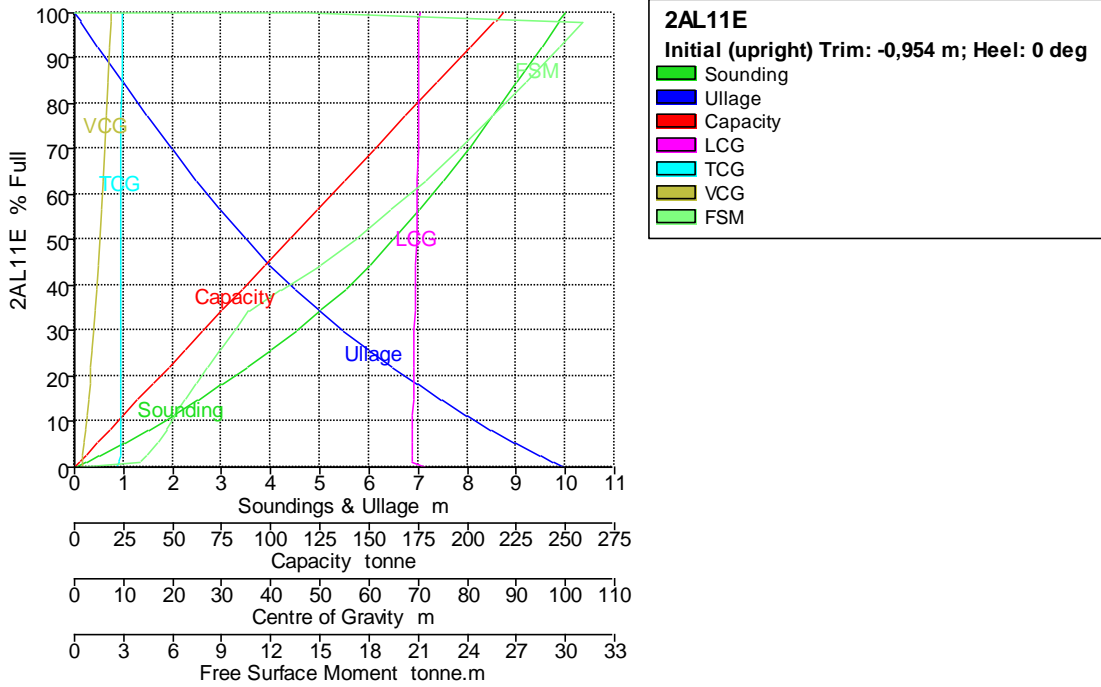
Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	7,500	2,500	62,949	133,977	137,326	69,866	-9,510	5,884	21,399
	7,000	3,000	56,361	119,954	122,952	69,764	-9,480	5,548	19,320
	6,500	3,500	50,135	106,704	109,372	69,657	-9,452	5,211	17,198
	6,000	4,000	44,326	94,340	96,698	69,547	-9,428	4,877	14,983
	5,500	4,500	39,007	83,019	85,095	69,441	-9,407	4,552	12,560
	5,000	5,000	34,259	72,915	74,738	69,351	-9,394	4,246	10,650
	4,500	5,500	29,855	63,541	65,130	69,270	-9,382	3,949	9,712
	4,000	6,000	25,711	54,722	56,090	69,196	-9,371	3,659	8,850
	3,500	6,500	21,806	46,411	47,571	69,128	-9,359	3,373	8,079
	3,000	7,000	18,118	38,561	39,525	69,064	-9,347	3,093	7,388
	2,500	7,500	14,628	31,133	31,911	69,003	-9,335	2,817	6,759
	2,000	8,000	11,321	24,095	24,698	68,945	-9,323	2,546	6,179
	1,500	8,500	8,188	17,428	17,863	68,887	-9,309	2,277	5,624
	1,000	9,000	5,229	11,128	11,406	68,827	-9,293	2,013	5,060
	0,500	9,500	2,460	5,236	5,367	68,772	-9,270	1,751	4,413
	0,217	9,783	1,000	2,128	2,182	68,796	-9,245	1,606	3,963
	0,000	10,000	0,016	0,034	0,034	71,568	-8,720	1,527	0,281

Tank Calibrations - 2AL11E

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = -0,954 m (+ve by stern); Heel = 0 deg

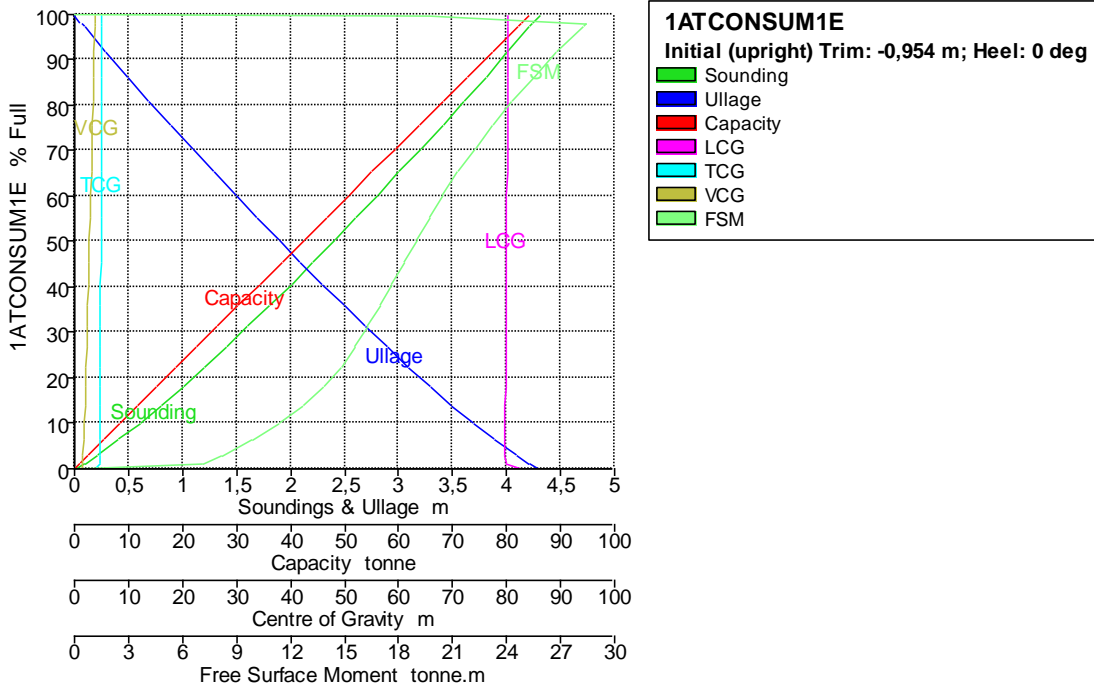


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL11E	10,000	0,000	100,000	212,833	218,153	70,249	9,657	7,517	0,000
	10,000	0,000	99,885	212,587	217,902	70,252	9,656	7,513	14,347
	9,862	0,138	98,000	208,576	213,790	70,248	9,649	7,437	31,064
	9,856	0,144	97,900	208,363	213,572	70,247	9,649	7,433	31,038
	9,500	0,500	92,266	196,373	201,282	70,199	9,628	7,204	29,589

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	9,000	1,000	84,544	179,937	184,435	70,126	9,599	6,879	27,549
	8,500	1,500	77,069	164,028	168,129	70,046	9,569	6,550	25,505
	8,000	2,000	69,862	148,690	152,407	69,960	9,539	6,219	23,457
	7,500	2,500	62,949	133,977	137,326	69,866	9,510	5,884	21,399
	7,000	3,000	56,361	119,954	122,952	69,764	9,480	5,548	19,320
	6,500	3,500	50,135	106,704	109,372	69,657	9,452	5,211	17,198
	6,000	4,000	44,326	94,340	96,698	69,547	9,428	4,877	14,983
	5,500	4,500	39,007	83,019	85,095	69,441	9,407	4,552	12,560
	5,000	5,000	34,259	72,915	74,738	69,351	9,394	4,246	10,650
	4,500	5,500	29,855	63,541	65,130	69,270	9,382	3,949	9,712
	4,000	6,000	25,711	54,722	56,090	69,196	9,371	3,659	8,850
	3,500	6,500	21,806	46,411	47,571	69,128	9,359	3,373	8,079
	3,000	7,000	18,118	38,561	39,525	69,064	9,347	3,093	7,388
	2,500	7,500	14,628	31,133	31,911	69,003	9,335	2,817	6,759
	2,000	8,000	11,321	24,095	24,698	68,945	9,323	2,546	6,179
	1,500	8,500	8,188	17,428	17,863	68,887	9,309	2,277	5,624
	1,000	9,000	5,229	11,128	11,406	68,827	9,293	2,013	5,060
	0,500	9,500	2,460	5,236	5,367	68,772	9,270	1,751	4,413
	0,217	9,783	1,000	2,128	2,182	68,796	9,245	1,606	3,963
	0,000	10,000	0,016	0,034	0,034	71,568	8,720	1,527	0,281

Tank Calibrations - 1ATCONSUM1E

Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg

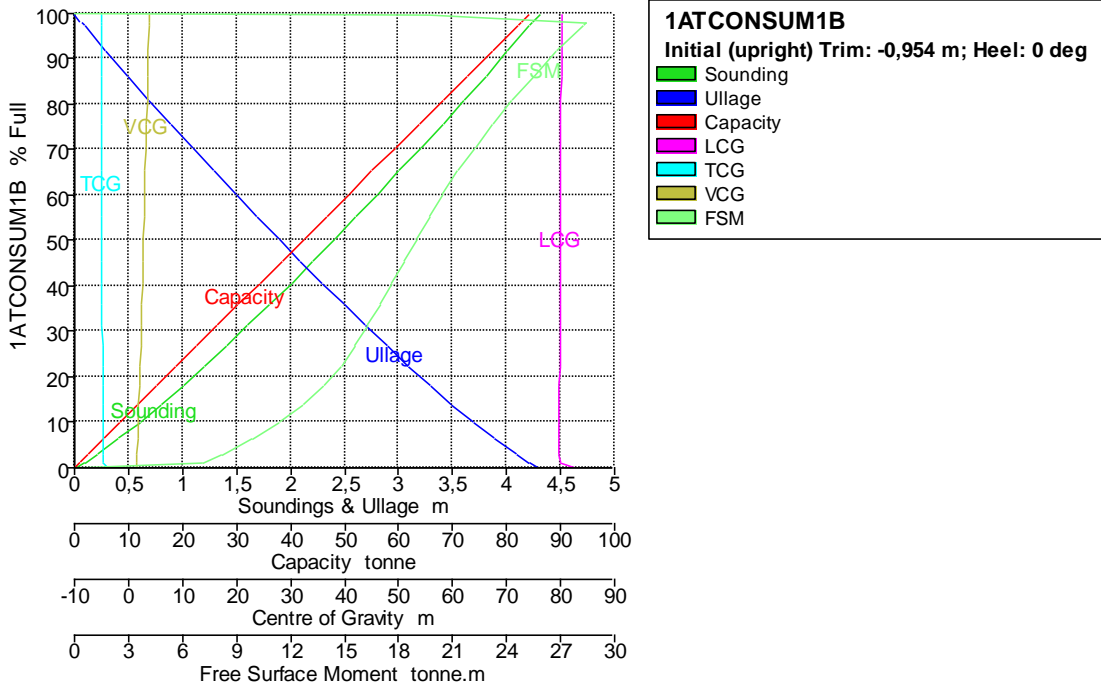


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
1ATCONSUM1E	4,300	0,000	100,000	84,403	84,403	80,115	4,990	3,827	0,000
	4,300	0,000	99,631	84,091	84,091	80,122	4,987	3,820	19,750

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	4,234	0,066	98,000	82,715	82,715	80,129	4,982	3,788	28,477
	4,231	0,069	97,900	82,630	82,630	80,129	4,982	3,786	28,450
	4,200	0,100	97,033	81,899	81,899	80,129	4,980	3,769	28,215
	4,000	0,300	91,474	77,206	77,206	80,124	4,967	3,658	26,769
	3,800	0,500	86,025	72,608	72,608	80,119	4,956	3,548	25,454
	3,600	0,700	80,675	68,092	68,092	80,114	4,944	3,438	24,262
	3,400	0,900	75,414	63,651	63,651	80,107	4,934	3,330	23,176
	3,200	1,100	70,231	59,277	59,277	80,100	4,923	3,222	22,185
	3,000	1,300	65,120	54,963	54,963	80,090	4,913	3,114	21,282
	2,800	1,500	60,073	50,703	50,703	80,079	4,903	3,006	20,456
	2,600	1,700	55,086	46,494	46,494	80,064	4,893	2,898	19,695
	2,400	1,900	50,159	42,335	42,335	80,047	4,884	2,791	18,984
	2,200	2,100	45,292	38,227	38,227	80,026	4,874	2,683	18,310
	2,000	2,300	40,490	34,174	34,174	80,002	4,863	2,574	17,654
	1,800	2,500	35,760	30,183	30,183	79,973	4,852	2,466	16,998
	1,600	2,700	31,114	26,261	26,261	79,940	4,839	2,357	16,314
	1,400	2,900	26,566	22,423	22,423	79,903	4,826	2,248	15,571
	1,200	3,100	22,136	18,684	18,684	79,861	4,810	2,138	14,737
	1,000	3,300	17,849	15,065	15,065	79,814	4,791	2,029	13,779
	0,800	3,500	13,733	11,591	11,591	79,764	4,770	1,919	12,660
	0,600	3,700	9,825	8,292	8,292	79,712	4,743	1,810	11,354
	0,400	3,900	6,168	5,206	5,206	79,669	4,710	1,703	9,836
	0,200	4,100	2,813	2,374	2,374	79,683	4,659	1,597	8,123
	0,082	4,218	1,000	0,844	0,844	79,952	4,573	1,538	7,043
	0,000	4,300	0,047	0,040	0,040	82,780	3,986	1,521	0,305

Tank Calibrations - 1ATCONSUM1B

Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



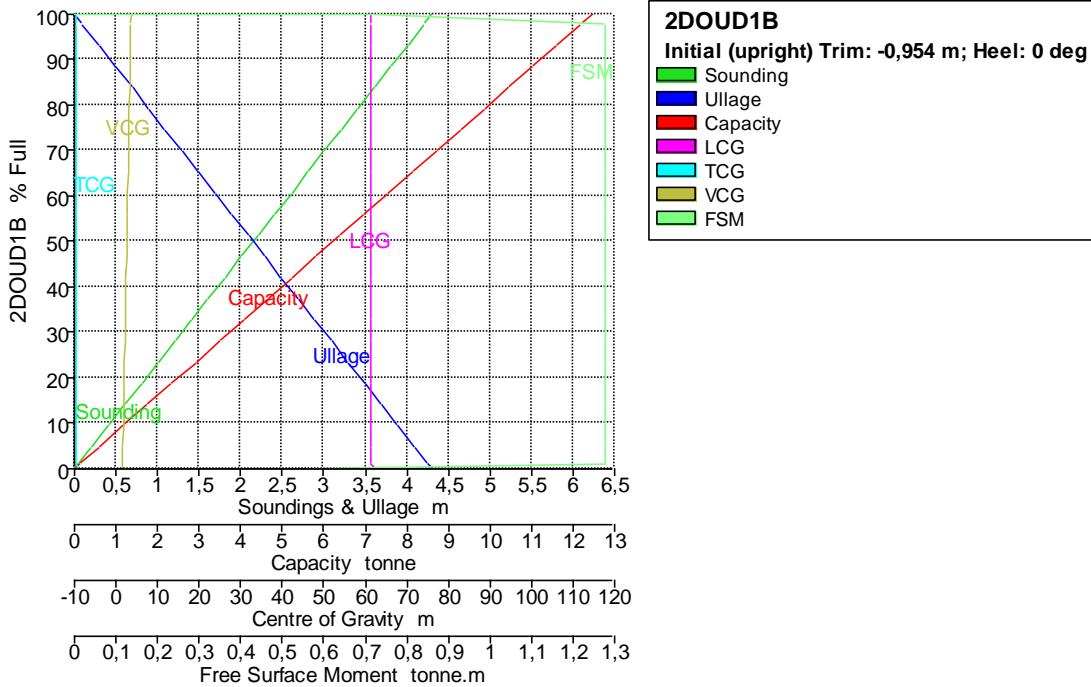
Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
1ATCONSUM1B	4,300	0,000	100,000	84,403	84,403	80,115	-4,990	3,827	0,000
	4,300	0,000	99,631	84,091	84,091	80,122	-4,987	3,820	19,750
	4,234	0,066	98,000	82,715	82,715	80,129	-4,982	3,788	28,477
	4,231	0,069	97,900	82,630	82,630	80,129	-4,982	3,786	28,450
	4,200	0,100	97,033	81,899	81,899	80,129	-4,980	3,769	28,215
	4,000	0,300	91,474	77,206	77,206	80,124	-4,967	3,658	26,769
	3,800	0,500	86,025	72,608	72,608	80,119	-4,956	3,548	25,454
	3,600	0,700	80,675	68,092	68,092	80,114	-4,944	3,438	24,262
	3,400	0,900	75,414	63,651	63,651	80,107	-4,934	3,330	23,176
	3,200	1,100	70,231	59,277	59,277	80,100	-4,923	3,222	22,185
	3,000	1,300	65,120	54,963	54,963	80,090	-4,913	3,114	21,282
	2,800	1,500	60,073	50,703	50,703	80,079	-4,903	3,006	20,456
	2,600	1,700	55,086	46,494	46,494	80,064	-4,893	2,898	19,695
	2,400	1,900	50,159	42,335	42,335	80,047	-4,884	2,791	18,984
	2,200	2,100	45,292	38,227	38,227	80,026	-4,874	2,683	18,310
	2,000	2,300	40,490	34,174	34,174	80,002	-4,863	2,574	17,654
	1,800	2,500	35,760	30,183	30,183	79,973	-4,852	2,466	16,998
	1,600	2,700	31,114	26,261	26,261	79,940	-4,839	2,357	16,314
	1,400	2,900	26,566	22,423	22,423	79,903	-4,826	2,248	15,571
	1,200	3,100	22,136	18,684	18,684	79,861	-4,810	2,138	14,737
	1,000	3,300	17,849	15,065	15,065	79,814	-4,791	2,029	13,779
	0,800	3,500	13,733	11,591	11,591	79,764	-4,770	1,919	12,660
	0,600	3,700	9,825	8,292	8,292	79,712	-4,743	1,810	11,354
	0,400	3,900	6,168	5,206	5,206	79,669	-4,710	1,703	9,836
	0,200	4,100	2,813	2,374	2,374	79,683	-4,659	1,597	8,123
	0,082	4,218	1,000	0,844	0,844	79,952	-4,573	1,538	7,043
	0,000	4,300	0,047	0,040	0,040	82,780	-3,986	1,521	0,305

Tank Calibrations - 2DOUD1B

Fluid Type = Diesel OIL Specific gravity = 0,84

Permeability = 100 %

Trim = -0,954 m (+ve by stern); Heel = 0 deg



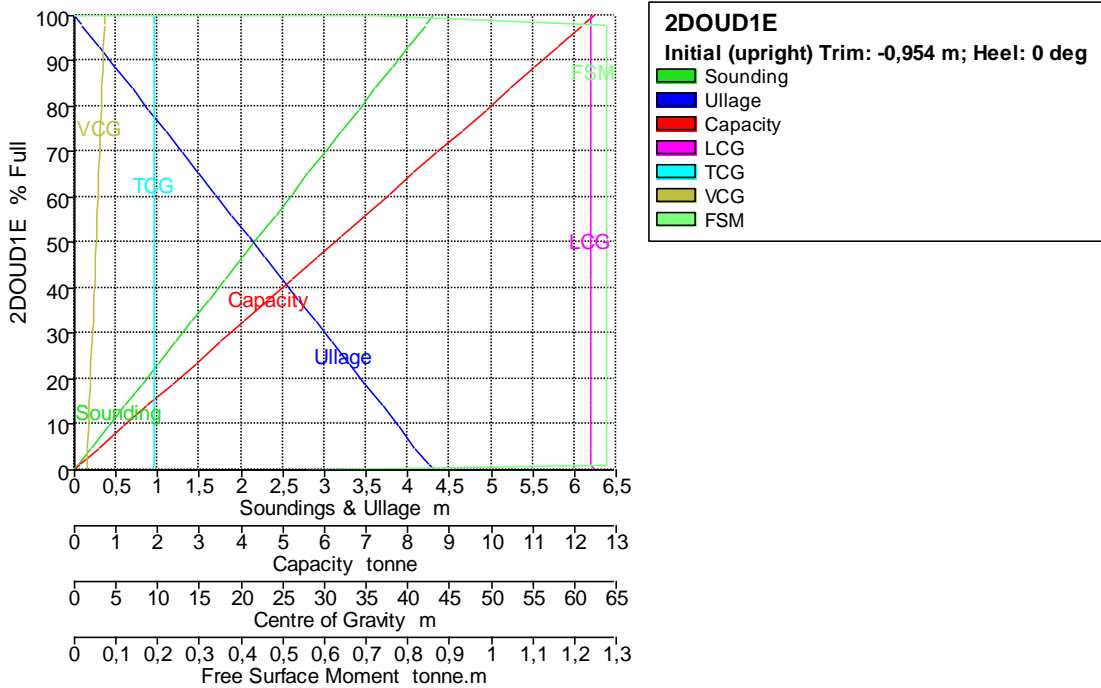
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DOUD1B	4,300	0,000	100,000	14,835	12,461	61,450	-9,550	3,650	0,000
	4,300	0,000	99,956	14,829	12,456	61,450	-9,550	3,649	0,721
	4,214	0,086	98,000	14,538	12,212	61,450	-9,550	3,607	1,278
	4,210	0,090	97,900	14,523	12,200	61,450	-9,550	3,605	1,278
	4,200	0,100	97,674	14,490	12,172	61,450	-9,550	3,600	1,278
	4,000	0,300	93,023	13,800	11,592	61,450	-9,550	3,500	1,278
	3,800	0,500	88,372	13,110	11,012	61,450	-9,550	3,400	1,278
	3,600	0,700	83,721	12,420	10,433	61,451	-9,550	3,300	1,278
	3,400	0,900	79,070	11,730	9,853	61,451	-9,550	3,200	1,278
	3,200	1,100	74,419	11,040	9,274	61,451	-9,550	3,100	1,278
	3,000	1,300	69,767	10,350	8,694	61,451	-9,550	3,000	1,278
	2,800	1,500	65,116	9,660	8,114	61,451	-9,550	2,900	1,278
	2,600	1,700	60,465	8,970	7,535	61,451	-9,550	2,800	1,278
	2,400	1,900	55,814	8,280	6,955	61,451	-9,550	2,700	1,278
	2,200	2,100	51,163	7,590	6,376	61,451	-9,550	2,600	1,278
	2,000	2,300	46,512	6,900	5,796	61,451	-9,550	2,500	1,278
	1,800	2,500	41,860	6,210	5,216	61,451	-9,550	2,400	1,278
	1,600	2,700	37,209	5,520	4,637	61,451	-9,550	2,300	1,278
	1,400	2,900	32,558	4,830	4,057	61,451	-9,550	2,200	1,278
	1,200	3,100	27,907	4,140	3,478	61,452	-9,550	2,100	1,278
	1,000	3,300	23,256	3,450	2,898	61,452	-9,550	2,000	1,278
	0,800	3,500	18,605	2,760	2,318	61,452	-9,550	1,900	1,278
	0,600	3,700	13,953	2,070	1,739	61,453	-9,550	1,800	1,278
	0,400	3,900	9,302	1,380	1,159	61,455	-9,550	1,700	1,278
	0,200	4,100	4,651	0,690	0,580	61,459	-9,550	1,600	1,278
	0,043	4,257	1,000	0,148	0,125	61,494	-9,550	1,522	1,278
	0,000	4,300	0,044	0,006	0,005	61,950	-9,337	1,580	0,556

Tank Calibrations - 2DOUD1E

Fluid Type = Diesel Oil Specific gravity = 0,84

Permeability = 100 %

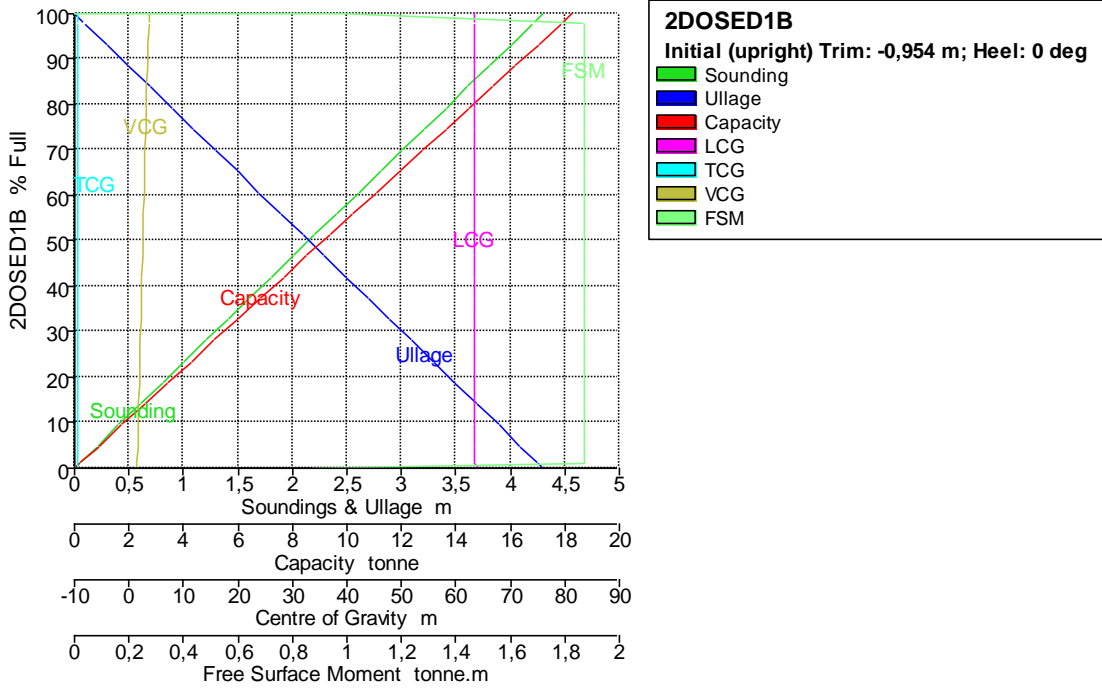
Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DOUD1E	4,300	0,000	100,000	14,835	12,461	61,870	9,550	3,650	0,000
	4,300	0,000	99,956	14,829	12,456	61,870	9,550	3,649	0,721
	4,214	0,086	98,000	14,538	12,212	61,870	9,550	3,607	1,278
	4,210	0,090	97,900	14,523	12,200	61,870	9,550	3,605	1,278
	4,200	0,100	97,674	14,490	12,172	61,870	9,550	3,600	1,278
	4,000	0,300	93,023	13,800	11,592	61,870	9,550	3,500	1,278
	3,800	0,500	88,372	13,110	11,012	61,870	9,550	3,400	1,278
	3,600	0,700	83,721	12,420	10,433	61,871	9,550	3,300	1,278
	3,400	0,900	79,070	11,730	9,853	61,871	9,550	3,200	1,278
	3,200	1,100	74,419	11,040	9,274	61,871	9,550	3,100	1,278
	3,000	1,300	69,767	10,350	8,694	61,871	9,550	3,000	1,278
	2,800	1,500	65,116	9,660	8,114	61,871	9,550	2,900	1,278
	2,600	1,700	60,465	8,970	7,535	61,871	9,550	2,800	1,278
	2,400	1,900	55,814	8,280	6,955	61,871	9,550	2,700	1,278
	2,200	2,100	51,163	7,590	6,376	61,871	9,550	2,600	1,278
	2,000	2,300	46,512	6,900	5,796	61,871	9,550	2,500	1,278
	1,800	2,500	41,860	6,210	5,216	61,871	9,550	2,400	1,278
	1,600	2,700	37,209	5,520	4,637	61,871	9,550	2,300	1,278
	1,400	2,900	32,558	4,830	4,057	61,871	9,550	2,200	1,278
	1,200	3,100	27,907	4,140	3,478	61,872	9,550	2,100	1,278
	1,000	3,300	23,256	3,450	2,898	61,872	9,550	2,000	1,278
	0,800	3,500	18,605	2,760	2,318	61,872	9,550	1,900	1,278
	0,600	3,700	13,953	2,070	1,739	61,873	9,550	1,800	1,278
	0,400	3,900	9,302	1,380	1,159	61,875	9,550	1,700	1,278
	0,200	4,100	4,651	0,690	0,580	61,879	9,550	1,600	1,278
	0,043	4,257	1,000	0,148	0,125	61,914	9,550	1,522	1,278
	0,000	4,300	0,044	0,006	0,005	62,370	9,337	1,580	0,556

Tank Calibrations - 2DOSED1B

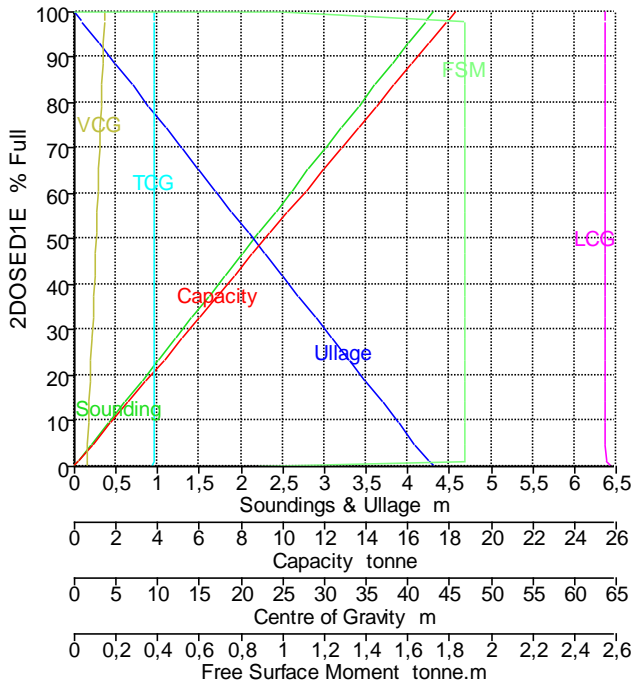
Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DOSED1B	4,300	0,000	100,000	21,758	18,277	63,300	-9,550	3,650	0,000
	4,300	0,000	99,939	21,745	18,266	63,300	-9,550	3,649	1,002
	4,214	0,086	98,000	21,323	17,911	63,301	-9,550	3,607	1,874
	4,209	0,091	97,900	21,301	17,893	63,301	-9,550	3,605	1,874
	4,200	0,100	97,681	21,253	17,853	63,301	-9,550	3,600	1,874
	4,000	0,300	93,030	20,241	17,003	63,301	-9,550	3,500	1,874
	3,800	0,500	88,379	19,229	16,153	63,301	-9,550	3,400	1,874
	3,600	0,700	83,727	18,217	15,303	63,301	-9,550	3,300	1,874
	3,400	0,900	79,076	17,205	14,453	63,301	-9,550	3,200	1,874
	3,200	1,100	74,425	16,193	13,602	63,301	-9,550	3,100	1,874
	3,000	1,300	69,774	15,181	12,752	63,301	-9,550	3,000	1,874
	2,800	1,500	65,123	14,169	11,902	63,301	-9,550	2,900	1,874
	2,600	1,700	60,472	13,157	11,052	63,302	-9,550	2,800	1,874
	2,400	1,900	55,820	12,145	10,202	63,302	-9,550	2,700	1,874
	2,200	2,100	51,169	11,133	9,352	63,302	-9,550	2,600	1,874
	2,000	2,300	46,518	10,121	8,502	63,302	-9,550	2,500	1,874
	1,800	2,500	41,867	9,109	7,652	63,302	-9,550	2,400	1,874
	1,600	2,700	37,216	8,097	6,802	63,303	-9,550	2,300	1,874
	1,400	2,900	32,565	7,085	5,952	63,303	-9,550	2,200	1,874
	1,200	3,100	27,913	6,073	5,102	63,303	-9,550	2,100	1,874
	1,000	3,300	23,262	5,061	4,252	63,304	-9,550	2,000	1,874
	0,800	3,500	18,611	4,049	3,402	63,305	-9,550	1,900	1,874
	0,600	3,700	13,960	3,037	2,551	63,307	-9,550	1,800	1,874
	0,400	3,900	9,309	2,025	1,701	63,310	-9,550	1,700	1,874
	0,200	4,100	4,658	1,013	0,851	63,320	-9,550	1,600	1,874
	0,043	4,257	1,000	0,218	0,183	63,394	-9,550	1,522	1,874
	0,000	4,300	0,067	0,015	0,012	64,024	-9,442	1,543	0,872

Tank Calibrations - 2DOSED1E

Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



2DOSED1E
 Initial (upright) Trim: -0,954 m; Heel: 0 deg

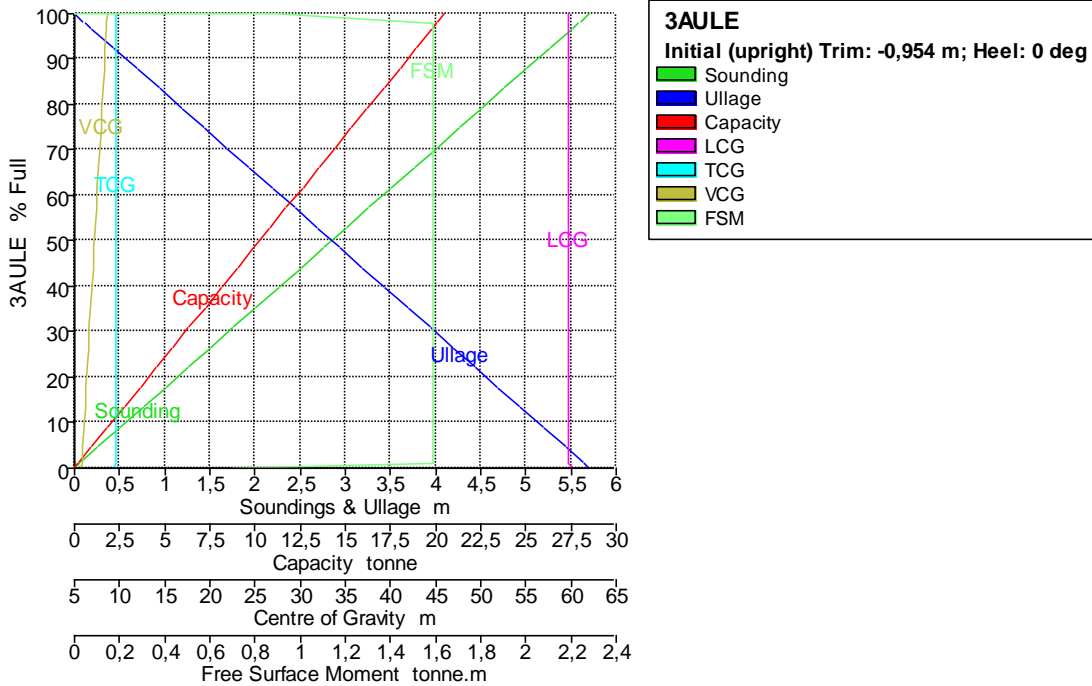
- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DOSED1E	4,300	0,000	100,000	21,758	18,277	63,720	9,550	3,650	0,000
	4,300	0,000	99,940	21,745	18,266	63,720	9,550	3,649	0,997
	4,214	0,086	98,000	21,323	17,911	63,721	9,550	3,607	1,874
	4,209	0,091	97,900	21,301	17,893	63,721	9,550	3,605	1,874
	4,200	0,100	97,682	21,254	17,853	63,721	9,550	3,600	1,874
	4,000	0,300	93,031	20,242	17,003	63,721	9,550	3,500	1,874
	3,800	0,500	88,380	19,230	16,153	63,721	9,550	3,400	1,874
	3,600	0,700	83,729	18,218	15,303	63,721	9,550	3,300	1,874
	3,400	0,900	79,077	17,206	14,453	63,721	9,550	3,200	1,874
	3,200	1,100	74,426	16,194	13,603	63,721	9,550	3,100	1,874
	3,000	1,300	69,775	15,182	12,753	63,721	9,550	3,000	1,874
	2,800	1,500	65,124	14,170	11,903	63,721	9,550	2,900	1,874
	2,600	1,700	60,473	13,158	11,052	63,722	9,550	2,800	1,874
	2,400	1,900	55,822	12,146	10,202	63,722	9,550	2,700	1,874
	2,200	2,100	51,170	11,134	9,352	63,722	9,550	2,600	1,874
	2,000	2,300	46,519	10,122	8,502	63,722	9,550	2,500	1,874
	1,800	2,500	41,868	9,110	7,652	63,722	9,550	2,400	1,874
	1,600	2,700	37,217	8,098	6,802	63,723	9,550	2,300	1,874
	1,400	2,900	32,566	7,086	5,952	63,723	9,550	2,200	1,874
	1,200	3,100	27,915	6,074	5,102	63,723	9,550	2,100	1,874
	1,000	3,300	23,263	5,062	4,252	63,724	9,550	2,000	1,874
	0,800	3,500	18,612	4,050	3,402	63,725	9,550	1,900	1,874
	0,600	3,700	13,961	3,038	2,552	63,727	9,550	1,800	1,874
	0,400	3,900	9,310	2,026	1,702	63,730	9,550	1,700	1,874
	0,200	4,100	4,659	1,014	0,851	63,740	9,550	1,600	1,874
	0,043	4,257	1,000	0,218	0,183	63,814	9,550	1,522	1,874

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,000	4,300	0,068	0,015	0,012	64,442	9,443	1,542	0,876

Tank Calibrations - 3AULE

Fluid Type = Aceite Specific gravity = 0,92
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg

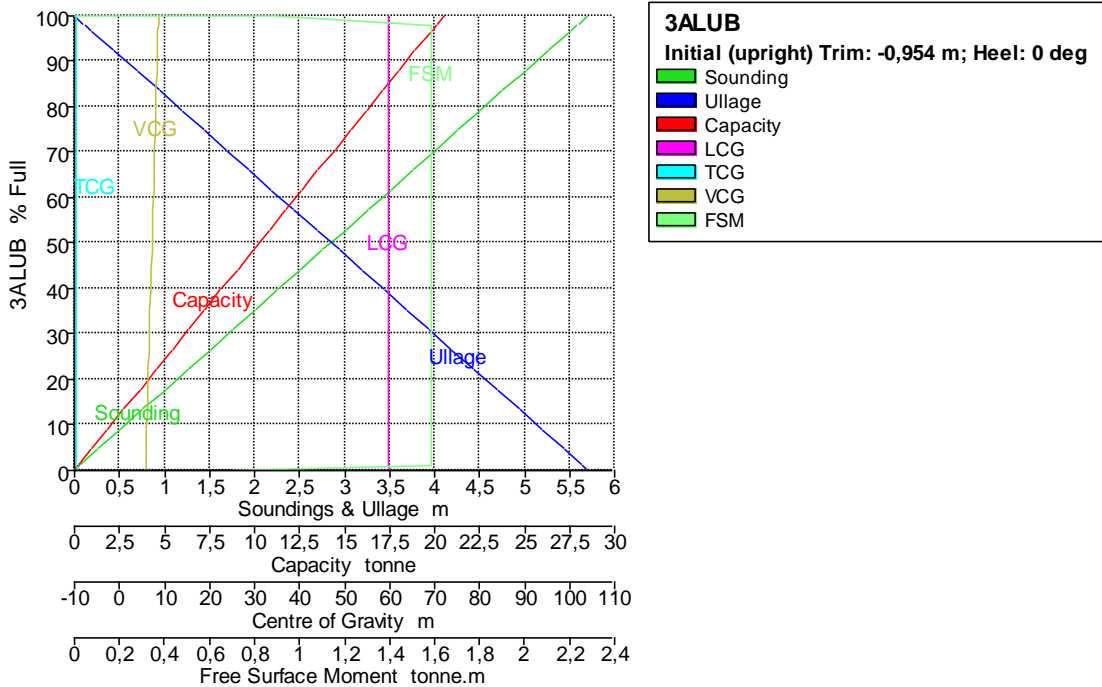


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3AULE	5,700	0,000	100,000	22,287	20,504	59,650	9,550	8,650	0,000
	5,700	0,000	99,963	22,279	20,496	59,650	9,550	8,649	0,896
	5,586	0,114	98,000	21,841	20,094	59,650	9,550	8,593	1,586
	5,580	0,120	97,900	21,819	20,073	59,650	9,550	8,590	1,586
	5,500	0,200	96,491	21,505	19,785	59,650	9,550	8,550	1,586
	5,250	0,450	92,105	20,527	18,885	59,650	9,550	8,425	1,586
	5,000	0,700	87,719	19,550	17,986	59,650	9,550	8,300	1,586
	4,750	0,950	83,333	18,572	17,087	59,651	9,550	8,175	1,586
	4,500	1,200	78,947	17,595	16,187	59,651	9,550	8,050	1,586
	4,250	1,450	74,561	16,617	15,288	59,651	9,550	7,925	1,586
	4,000	1,700	70,175	15,640	14,389	59,651	9,550	7,800	1,586
	3,750	1,950	65,789	14,662	13,489	59,651	9,550	7,675	1,586
	3,500	2,200	61,404	13,685	12,590	59,651	9,550	7,550	1,586
	3,250	2,450	57,018	12,707	11,691	59,651	9,550	7,425	1,586
	3,000	2,700	52,632	11,730	10,792	59,651	9,550	7,300	1,586
	2,750	2,950	48,246	10,752	9,892	59,651	9,550	7,175	1,586
	2,500	3,200	43,860	9,775	8,993	59,651	9,550	7,050	1,586
	2,250	3,450	39,474	8,797	8,094	59,651	9,550	6,925	1,586
	2,000	3,700	35,088	7,820	7,194	59,651	9,550	6,800	1,586
	1,750	3,950	30,702	6,842	6,295	59,651	9,550	6,675	1,586
	1,500	4,200	26,316	5,865	5,396	59,652	9,550	6,550	1,586

Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	1,250	4,450	21,930	4,887	4,496	59,652	9,550	6,425	1,586
	1,000	4,700	17,544	3,910	3,597	59,652	9,550	6,300	1,586
	0,750	4,950	13,158	2,932	2,698	59,653	9,550	6,175	1,586
	0,500	5,200	8,772	1,955	1,799	59,655	9,550	6,050	1,586
	0,250	5,450	4,386	0,977	0,899	59,660	9,550	5,925	1,586
	0,057	5,643	1,000	0,223	0,205	59,692	9,550	5,829	1,586
	0,000	5,700	0,037	0,008	0,008	60,217	9,337	5,784	0,690

Tank Calibrations - 3ALUB

Fluid Type = Aceite Specific gravity = 0,92
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3ALUB	5,700	0,000	100,000	22,287	20,504	59,650	-9,550	8,650	0,000
	5,700	0,000	99,963	22,279	20,496	59,650	-9,550	8,649	0,896
	5,586	0,114	98,000	21,841	20,094	59,650	-9,550	8,593	1,586
	5,580	0,120	97,900	21,819	20,073	59,650	-9,550	8,590	1,586
	5,500	0,200	96,491	21,505	19,785	59,650	-9,550	8,550	1,586
	5,250	0,450	92,105	20,527	18,885	59,650	-9,550	8,425	1,586
	5,000	0,700	87,719	19,550	17,986	59,650	-9,550	8,300	1,586
	4,750	0,950	83,333	18,572	17,087	59,651	-9,550	8,175	1,586
	4,500	1,200	78,947	17,595	16,187	59,651	-9,550	8,050	1,586
	4,250	1,450	74,561	16,617	15,288	59,651	-9,550	7,925	1,586
	4,000	1,700	70,175	15,640	14,389	59,651	-9,550	7,800	1,586
	3,750	1,950	65,789	14,662	13,489	59,651	-9,550	7,675	1,586
	3,500	2,200	61,404	13,685	12,590	59,651	-9,550	7,550	1,586
	3,250	2,450	57,018	12,707	11,691	59,651	-9,550	7,425	1,586
	3,000	2,700	52,632	11,730	10,792	59,651	-9,550	7,300	1,586

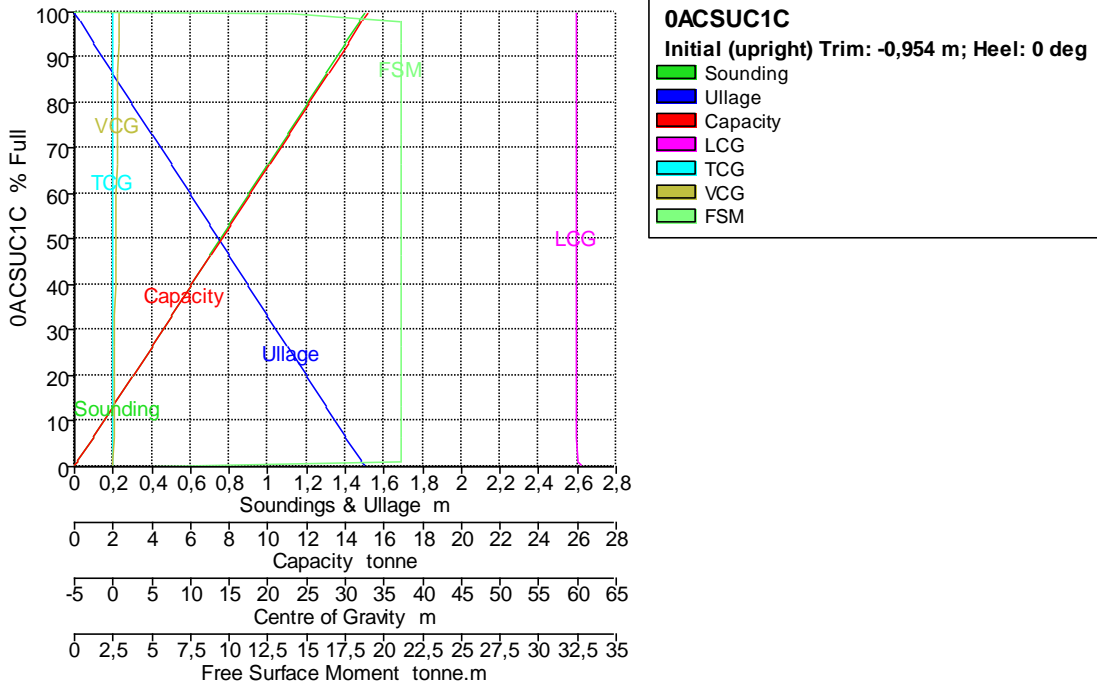
Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	2,750	2,950	48,246	10,752	9,892	59,651	-9,550	7,175	1,586
	2,500	3,200	43,860	9,775	8,993	59,651	-9,550	7,050	1,586
	2,250	3,450	39,474	8,797	8,094	59,651	-9,550	6,925	1,586
	2,000	3,700	35,088	7,820	7,194	59,651	-9,550	6,800	1,586
	1,750	3,950	30,702	6,842	6,295	59,651	-9,550	6,675	1,586
	1,500	4,200	26,316	5,865	5,396	59,652	-9,550	6,550	1,586
	1,250	4,450	21,930	4,887	4,496	59,652	-9,550	6,425	1,586
	1,000	4,700	17,544	3,910	3,597	59,652	-9,550	6,300	1,586
	0,750	4,950	13,158	2,932	2,698	59,653	-9,550	6,175	1,586
	0,500	5,200	8,772	1,955	1,799	59,655	-9,550	6,050	1,586
	0,250	5,450	4,386	0,977	0,899	59,660	-9,550	5,925	1,586
	0,057	5,643	1,000	0,223	0,205	59,692	-9,550	5,829	1,586
	0,000	5,700	0,037	0,008	0,008	60,217	-9,337	5,784	0,690

Tank Calibrations - 0ACSUC1C

Fluid Type = Aceite Specific gravity = 0,92

Permeability = 100 %

Trim = -0,954 m (+ve by stern); Heel = 0 deg

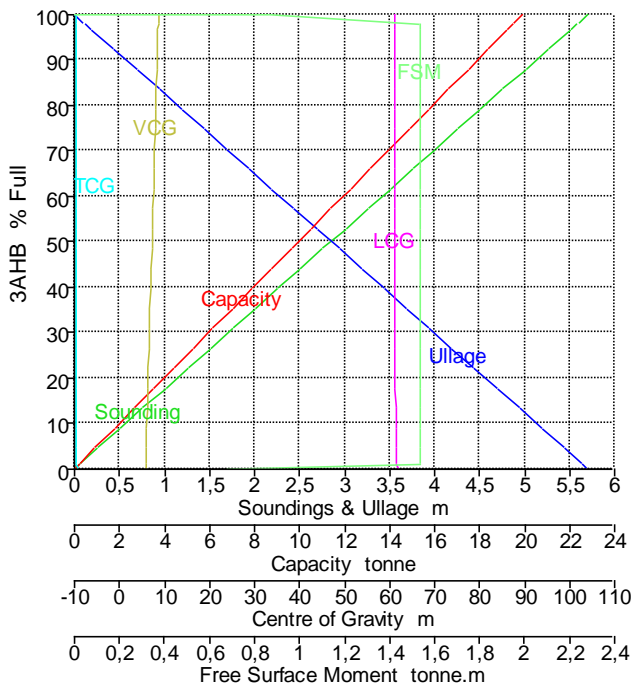


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0ACSUC1C	1,500	0,000	100,000	16,482	15,163	59,900	0,000	0,751	0,000
	1,500	0,000	99,720	16,436	15,121	59,902	0,000	0,749	14,014
	1,473	0,027	98,000	16,152	14,860	59,903	0,000	0,736	21,084
	1,471	0,029	97,900	16,136	14,845	59,903	0,000	0,735	21,084
	1,400	0,100	93,153	15,353	14,125	59,903	0,000	0,700	21,084
	1,300	0,200	86,479	14,253	13,113	59,903	0,000	0,650	21,084
	1,200	0,300	79,805	13,153	12,101	59,903	0,000	0,600	21,084
	1,100	0,400	73,131	12,053	11,089	59,904	0,000	0,550	21,084
	1,000	0,500	66,457	10,953	10,077	59,904	0,000	0,500	21,084

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,900	0,600	59,783	9,853	9,065	59,904	0,000	0,450	21,084
	0,800	0,700	53,109	8,753	8,053	59,905	0,000	0,400	21,084
	0,700	0,800	46,435	7,653	7,041	59,906	0,000	0,350	21,084
	0,600	0,900	39,761	6,553	6,029	59,907	0,000	0,300	21,084
	0,500	1,000	33,087	5,453	5,017	59,908	0,000	0,250	21,084
	0,400	1,100	26,413	4,353	4,005	59,910	0,000	0,200	21,084
	0,300	1,200	19,739	3,253	2,993	59,913	0,000	0,150	21,084
	0,200	1,300	13,064	2,153	1,981	59,920	0,000	0,100	21,084
	0,100	1,400	6,390	1,053	0,969	59,941	0,000	0,050	21,084
	0,019	1,481	1,000	0,165	0,152	60,161	0,000	0,010	21,084
	0,000	1,500	0,068	0,011	0,010	60,752	0,000	0,014	5,003

Tank Calibrations - 3AHB

Fluid Type = Aceite Specific gravity = 0,92
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



3AHB
 Initial (upright) Trim: -0,954 m; Heel: 0 deg

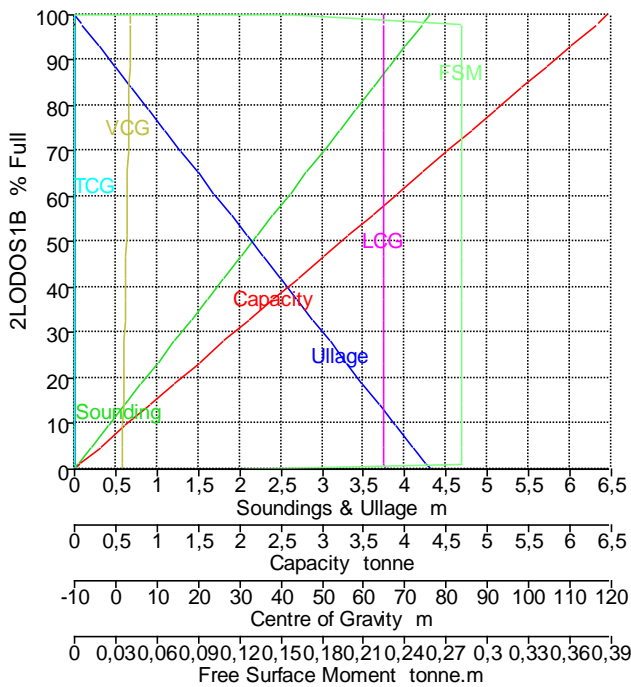
- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3AHB	5,700	0,000	100,000	21,631	19,901	61,325	-9,550	8,650	0,000
	5,700	0,000	99,964	21,624	19,894	61,325	-9,550	8,649	0,869
	5,586	0,114	98,000	21,199	19,503	61,325	-9,550	8,593	1,539
	5,580	0,120	97,900	21,177	19,483	61,325	-9,550	8,590	1,539
	5,500	0,200	96,491	20,872	19,203	61,325	-9,550	8,550	1,539
	5,250	0,450	92,105	19,924	18,330	61,325	-9,550	8,425	1,539
	5,000	0,700	87,719	18,975	17,457	61,325	-9,550	8,300	1,539
	4,750	0,950	83,333	18,026	16,584	61,325	-9,550	8,175	1,539
	4,500	1,200	78,947	17,077	15,711	61,326	-9,550	8,050	1,539
	4,250	1,450	74,561	16,129	14,838	61,326	-9,550	7,925	1,539
	4,000	1,700	70,175	15,180	13,966	61,326	-9,550	7,800	1,539

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	3,750	1,950	65,789	14,231	13,093	61,326	-9,550	7,675	1,539
	3,500	2,200	61,404	13,282	12,220	61,326	-9,550	7,550	1,539
	3,250	2,450	57,018	12,334	11,347	61,326	-9,550	7,425	1,539
	3,000	2,700	52,632	11,385	10,474	61,326	-9,550	7,300	1,539
	2,750	2,950	48,246	10,436	9,601	61,326	-9,550	7,175	1,539
	2,500	3,200	43,860	9,487	8,728	61,326	-9,550	7,050	1,539
	2,250	3,450	39,474	8,539	7,856	61,326	-9,550	6,925	1,539
	2,000	3,700	35,088	7,590	6,983	61,326	-9,550	6,800	1,539
	1,750	3,950	30,702	6,641	6,110	61,326	-9,550	6,675	1,539
	1,500	4,200	26,316	5,692	5,237	61,327	-9,550	6,550	1,539
	1,250	4,450	21,930	4,744	4,364	61,327	-9,550	6,425	1,539
	1,000	4,700	17,544	3,795	3,491	61,327	-9,550	6,300	1,539
	0,750	4,950	13,158	2,846	2,619	61,328	-9,550	6,175	1,539
	0,500	5,200	8,772	1,897	1,746	61,330	-9,550	6,050	1,539
	0,250	5,450	4,386	0,949	0,873	61,334	-9,550	5,925	1,539
	0,057	5,643	1,000	0,216	0,199	61,365	-9,550	5,829	1,539
	0,000	5,700	0,036	0,008	0,007	61,875	-9,398	5,789	0,670

Tank Calibrations - 2LODOS1B

Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



2LODOS1B
 Initial (upright) Trim: -0,954 m; Heel: 0 deg

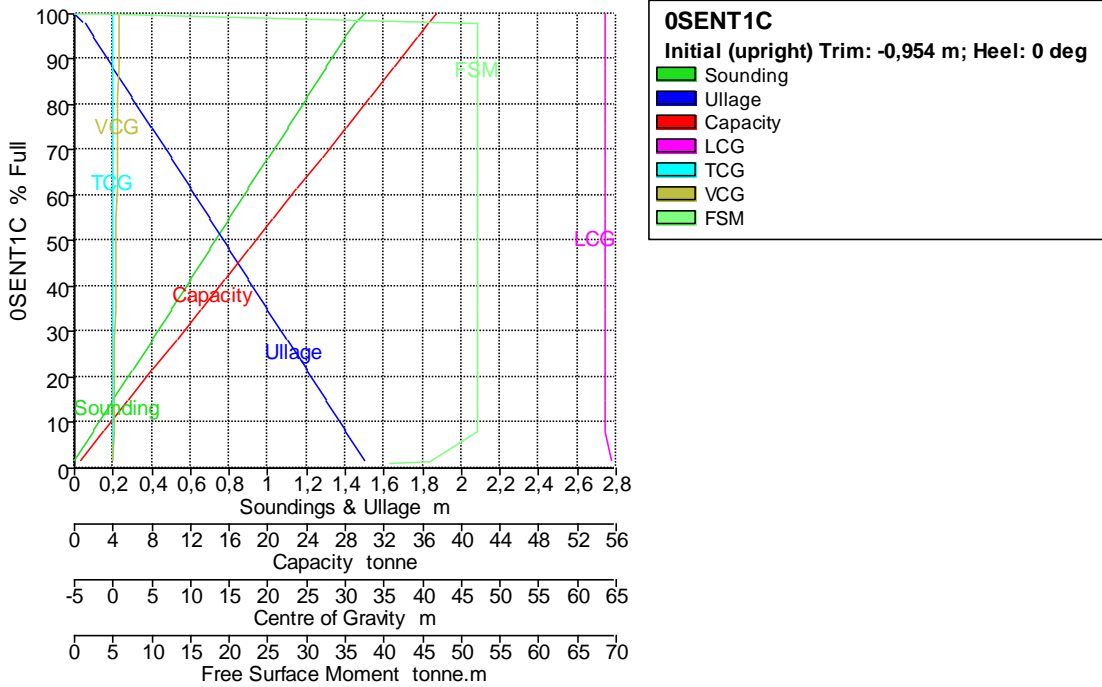
- Sounding
- Ullage
- Capacity
- LCG
- TCG
- VCG
- FSM

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2LODOS1B	4,300	0,000	100,000	6,450	6,450	64,900	-9,950	3,650	0,000
	4,300	0,000	99,971	6,448	6,448	64,900	-9,950	3,649	0,159
	4,214	0,086	98,000	6,321	6,321	64,900	-9,950	3,607	0,281
	4,210	0,090	97,900	6,315	6,315	64,900	-9,950	3,605	0,281
	4,200	0,100	97,674	6,300	6,300	64,900	-9,950	3,600	0,281

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	4,000	0,300	93,023	6,000	6,000	64,900	-9,950	3,500	0,281
	3,800	0,500	88,372	5,700	5,700	64,900	-9,950	3,400	0,281
	3,600	0,700	83,721	5,400	5,400	64,900	-9,950	3,300	0,281
	3,400	0,900	79,070	5,100	5,100	64,900	-9,950	3,200	0,281
	3,200	1,100	74,419	4,800	4,800	64,900	-9,950	3,100	0,281
	3,000	1,300	69,767	4,500	4,500	64,900	-9,950	3,000	0,281
	2,800	1,500	65,116	4,200	4,200	64,900	-9,950	2,900	0,281
	2,600	1,700	60,465	3,900	3,900	64,900	-9,950	2,800	0,281
	2,400	1,900	55,814	3,600	3,600	64,900	-9,950	2,700	0,281
	2,200	2,100	51,163	3,300	3,300	64,900	-9,950	2,600	0,281
	2,000	2,300	46,512	3,000	3,000	64,900	-9,950	2,500	0,281
	1,800	2,500	41,860	2,700	2,700	64,900	-9,950	2,400	0,281
	1,600	2,700	37,209	2,400	2,400	64,901	-9,950	2,300	0,281
	1,400	2,900	32,558	2,100	2,100	64,901	-9,950	2,200	0,281
	1,200	3,100	27,907	1,800	1,800	64,901	-9,950	2,100	0,281
	1,000	3,300	23,256	1,500	1,500	64,901	-9,950	2,000	0,281
	0,800	3,500	18,605	1,200	1,200	64,901	-9,950	1,900	0,281
	0,600	3,700	13,953	0,900	0,900	64,901	-9,950	1,800	0,281
	0,400	3,900	9,302	0,600	0,600	64,902	-9,950	1,700	0,281
	0,200	4,100	4,651	0,300	0,300	64,904	-9,950	1,600	0,281
	0,043	4,257	1,000	0,065	0,065	64,919	-9,950	1,522	0,281
	0,000	4,300	0,029	0,002	0,002	65,233	-9,728	1,579	0,122

Tank Calibrations - 0SENT1C

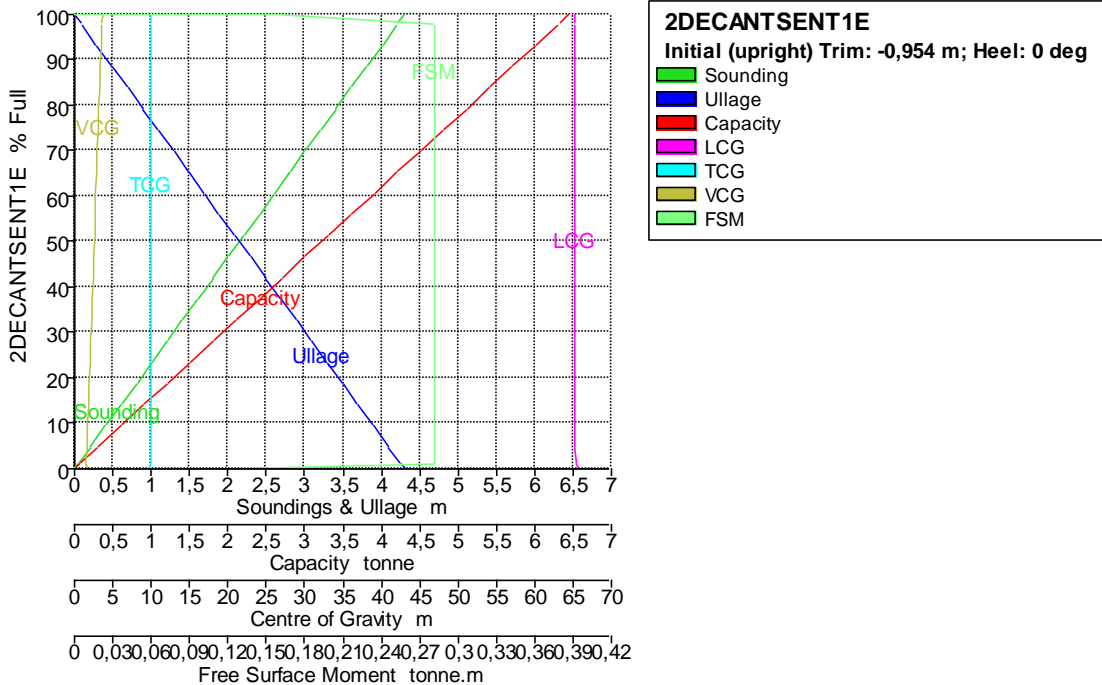
Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0SENT1C	1,500	0,000	100,000	37,387	37,387	63,498	0,000	0,752	0,000
	1,500	0,000	99,997	37,386	37,386	63,498	0,000	0,752	3,127
	1,447	0,053	98,000	36,639	36,639	63,512	0,000	0,737	52,086
	1,445	0,054	97,900	36,601	36,601	63,512	0,000	0,737	52,086
	1,400	0,100	94,858	35,464	35,464	63,513	0,000	0,714	52,086
	1,300	0,200	88,171	32,964	32,964	63,514	0,000	0,664	52,086
	1,200	0,300	81,484	30,464	30,464	63,515	0,000	0,614	52,086
	1,100	0,400	74,797	27,964	27,964	63,516	0,000	0,564	52,086
	1,000	0,500	68,110	25,464	25,464	63,518	0,000	0,514	52,086
	0,900	0,600	61,424	22,964	22,964	63,520	0,000	0,464	52,086
	0,800	0,700	54,737	20,464	20,464	63,522	0,000	0,414	52,086
	0,700	0,800	48,050	17,964	17,964	63,525	0,000	0,364	52,086
	0,600	0,900	41,363	15,464	15,464	63,530	0,000	0,314	52,086
	0,500	1,000	34,676	12,964	12,964	63,535	0,000	0,264	52,086
	0,400	1,100	27,989	10,464	10,464	63,544	0,000	0,214	52,086
	0,300	1,200	21,302	7,964	7,964	63,557	0,000	0,164	52,086
	0,200	1,300	14,615	5,464	5,464	63,584	0,000	0,114	52,086
	0,100	1,400	7,928	2,964	2,964	63,654	0,000	0,065	52,086
	0,000	1,500	1,256	0,469	0,469	64,448	0,000	0,020	45,715
	0,000	1,500	1,000	0,374	0,374	64,606	0,000	0,019	40,610

Tank Calibrations - 2DECANTSENT1E

Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg

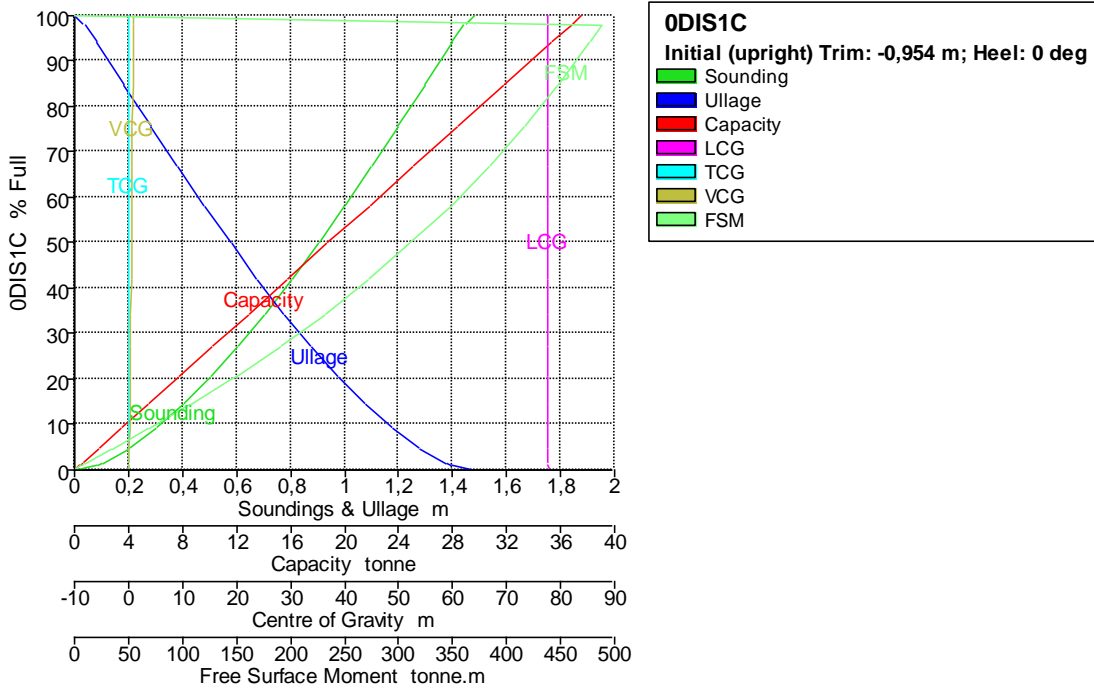


Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DECANTSENT1E	4,300	0,000	100,000	6,450	6,450	65,320	9,950	3,650	0,000

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	4,300	0,000	99,971	6,448	6,448	65,320	9,950	3,649	0,159
	4,214	0,086	98,000	6,321	6,321	65,320	9,950	3,607	0,281
	4,210	0,090	97,900	6,315	6,315	65,320	9,950	3,605	0,281
	4,200	0,100	97,674	6,300	6,300	65,320	9,950	3,600	0,281
	4,000	0,300	93,023	6,000	6,000	65,320	9,950	3,500	0,281
	3,800	0,500	88,372	5,700	5,700	65,320	9,950	3,400	0,281
	3,600	0,700	83,721	5,400	5,400	65,320	9,950	3,300	0,281
	3,400	0,900	79,070	5,100	5,100	65,320	9,950	3,200	0,281
	3,200	1,100	74,419	4,800	4,800	65,320	9,950	3,100	0,281
	3,000	1,300	69,767	4,500	4,500	65,320	9,950	3,000	0,281
	2,800	1,500	65,116	4,200	4,200	65,320	9,950	2,900	0,281
	2,600	1,700	60,465	3,900	3,900	65,320	9,950	2,800	0,281
	2,400	1,900	55,814	3,600	3,600	65,320	9,950	2,700	0,281
	2,200	2,100	51,163	3,300	3,300	65,320	9,950	2,600	0,281
	2,000	2,300	46,512	3,000	3,000	65,320	9,950	2,500	0,281
	1,800	2,500	41,860	2,700	2,700	65,320	9,950	2,400	0,281
	1,600	2,700	37,209	2,400	2,400	65,321	9,950	2,300	0,281
	1,400	2,900	32,558	2,100	2,100	65,321	9,950	2,200	0,281
	1,200	3,100	27,907	1,800	1,800	65,321	9,950	2,100	0,281
	1,000	3,300	23,256	1,500	1,500	65,321	9,950	2,000	0,281
	0,800	3,500	18,605	1,200	1,200	65,321	9,950	1,900	0,281
	0,600	3,700	13,953	0,900	0,900	65,321	9,950	1,800	0,281
	0,400	3,900	9,302	0,600	0,600	65,322	9,950	1,700	0,281
	0,200	4,100	4,651	0,300	0,300	65,324	9,950	1,600	0,281
	0,043	4,257	1,000	0,065	0,065	65,339	9,950	1,522	0,281
	0,000	4,300	0,029	0,002	0,002	65,653	9,769	1,564	0,122

Tank Calibrations - 0DIS1C

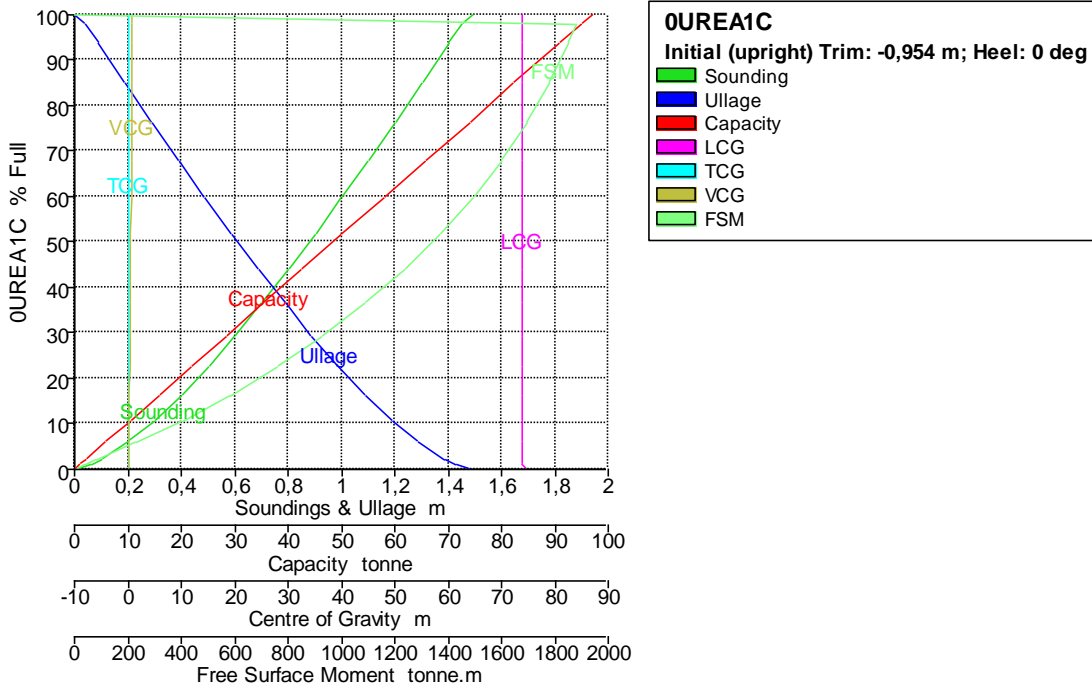
Fluid Type = Dispersante Specific gravity = 0,8
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0DIS1C	1,481	0,000	100,000	46,961	37,569	77,658	0,000	0,904	0,000
	1,443	0,038	98,000	46,022	36,817	77,668	0,000	0,892	487,799
	1,442	0,039	97,900	45,975	36,780	77,668	0,000	0,892	487,519
	1,400	0,081	93,904	44,098	35,278	77,667	0,000	0,867	476,088
	1,300	0,181	84,594	39,726	31,781	77,666	0,000	0,810	447,346
	1,200	0,281	75,493	35,452	28,362	77,665	0,000	0,753	416,214
	1,100	0,381	66,626	31,288	25,030	77,664	0,000	0,696	382,867
	1,000	0,481	58,022	27,248	21,798	77,662	0,000	0,638	347,529
	0,900	0,581	49,715	23,347	18,677	77,661	0,000	0,580	310,369
	0,800	0,681	41,744	19,603	15,683	77,659	0,000	0,521	271,503
	0,700	0,781	34,155	16,040	12,832	77,657	0,000	0,462	231,141
	0,600	0,881	27,006	12,682	10,146	77,654	0,000	0,403	189,682
	0,500	0,981	20,370	9,566	7,653	77,652	0,000	0,343	147,790
	0,400	1,081	14,338	6,733	5,387	77,648	0,000	0,283	106,522
	0,300	1,181	9,035	4,243	3,394	77,644	0,000	0,222	67,536
	0,200	1,281	4,640	2,179	1,743	77,638	0,000	0,161	33,486
	0,100	1,381	1,436	0,674	0,539	77,631	0,000	0,098	8,751
	0,081	1,400	1,000	0,470	0,376	77,630	0,000	0,086	5,640
	0,000	1,481	0,003	0,001	0,001	77,913	0,000	0,038	0,002

Tank Calibrations - 0UREA1C

Fluid Type = Urea Specific gravity = 1,32
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg

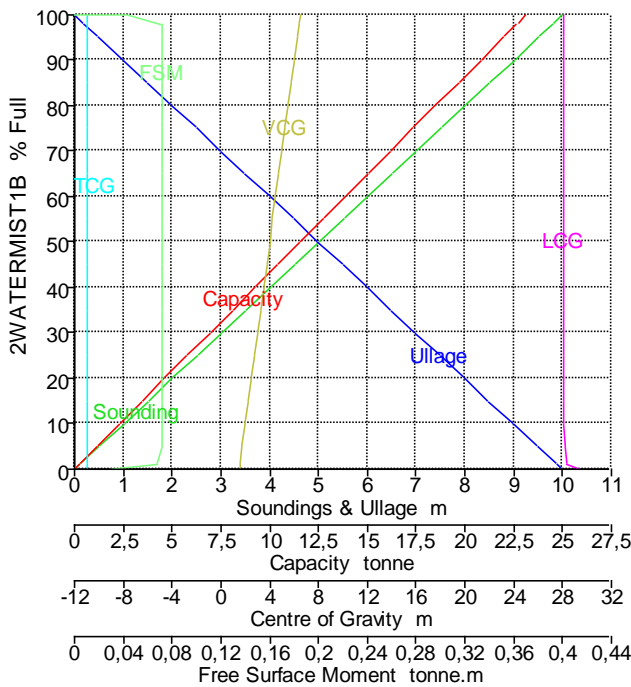


Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0UREA1C	1,492	0,000	100,000	73,384	96,867	73,899	0,000	0,876	0,000
	1,450	0,042	98,000	71,916	94,929	73,910	0,000	0,864	1880,802

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	1,449	0,043	97,900	71,843	94,832	73,910	0,000	0,863	1880,111
	1,400	0,092	93,593	68,682	90,660	73,910	0,000	0,836	1849,039
	1,300	0,192	84,889	62,294	82,229	73,908	0,000	0,780	1778,084
	1,200	0,292	76,311	56,000	73,920	73,906	0,000	0,724	1695,789
	1,100	0,392	67,885	49,816	65,758	73,905	0,000	0,668	1600,879
	1,000	0,492	59,639	43,765	57,770	73,903	0,000	0,612	1492,401
	0,900	0,592	51,606	37,871	49,989	73,902	0,000	0,555	1370,024
	0,800	0,692	43,827	32,162	42,453	73,900	0,000	0,497	1234,217
	0,700	0,792	36,344	26,671	35,206	73,899	0,000	0,440	1086,097
	0,600	0,892	29,212	21,437	28,297	73,898	0,000	0,382	926,938
	0,500	0,992	22,495	16,507	21,790	73,897	0,000	0,324	757,894
	0,400	1,092	16,278	11,945	15,768	73,897	0,000	0,265	581,360
	0,300	1,192	10,678	7,836	10,344	73,900	0,000	0,205	402,049
	0,200	1,292	5,864	4,304	5,681	73,911	0,000	0,145	228,963
	0,100	1,392	2,117	1,554	2,051	73,955	0,000	0,085	80,357
	0,059	1,433	1,000	0,734	0,969	74,022	0,000	0,060	34,752
	0,000	1,492	0,065	0,048	0,063	74,768	0,000	0,029	1,015

Tank Calibrations - 2WATERMIST1B

Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



2WATERMIST1B
 Initial (upright) Trim: -0,954 m; Heel: 0 deg

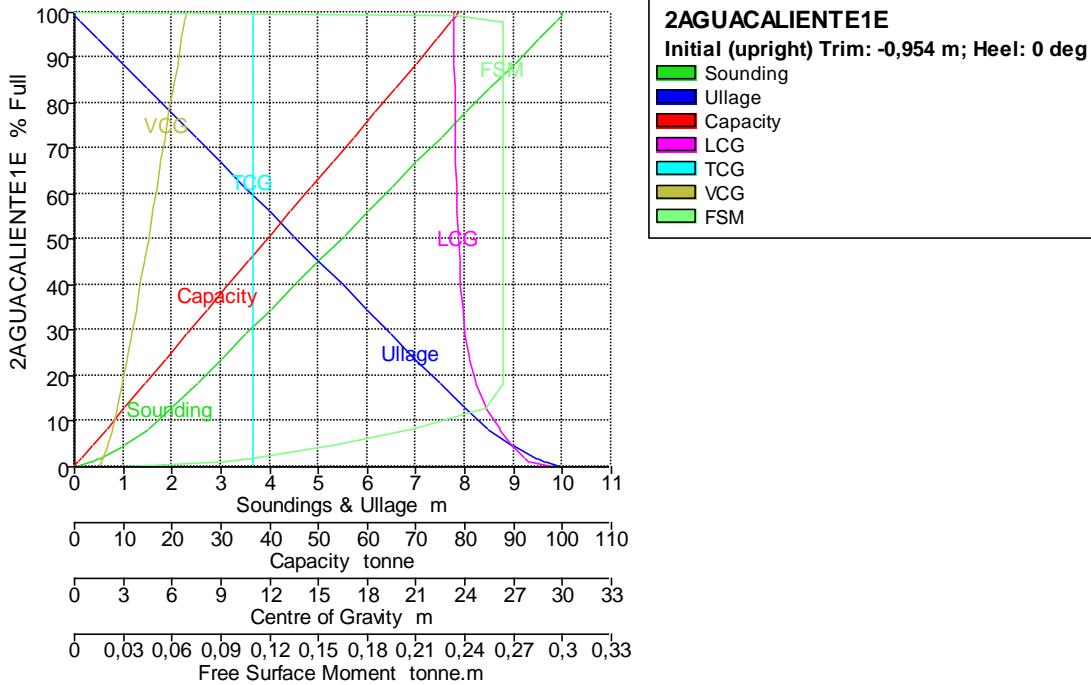
- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2WATERMIST1B	10,000	0,000	100,000	23,116	23,116	28,102	-11,004	6,506	0,000
	10,000	0,000	99,936	23,102	23,102	28,103	-11,004	6,502	0,043
	9,803	0,197	98,000	22,654	22,654	28,103	-11,004	6,406	0,072
	9,793	0,207	97,900	22,631	22,631	28,103	-11,004	6,401	0,072
	9,500	0,500	94,964	21,952	21,952	28,103	-11,004	6,254	0,072

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	9,000	1,000	89,959	20,795	20,795	28,103	-11,004	6,004	0,072
	8,500	1,500	84,953	19,638	19,638	28,104	-11,004	5,754	0,072
	8,000	2,000	79,948	18,481	18,481	28,104	-11,004	5,504	0,072
	7,500	2,500	74,942	17,324	17,324	28,104	-11,004	5,254	0,072
	7,000	3,000	69,937	16,167	16,167	28,104	-11,004	5,004	0,072
	6,500	3,500	64,931	15,010	15,010	28,105	-11,004	4,754	0,072
	6,000	4,000	59,925	13,853	13,853	28,105	-11,004	4,504	0,072
	5,500	4,500	54,920	12,695	12,695	28,106	-11,004	4,254	0,072
	5,000	5,000	49,914	11,538	11,538	28,106	-11,004	4,004	0,072
	4,500	5,500	44,909	10,381	10,381	28,107	-11,004	3,754	0,072
	4,000	6,000	39,903	9,224	9,224	28,108	-11,004	3,504	0,072
	3,500	6,500	34,898	8,067	8,067	28,109	-11,004	3,254	0,072
	3,000	7,000	29,892	6,910	6,910	28,110	-11,004	3,004	0,072
	2,500	7,500	24,886	5,753	5,753	28,112	-11,004	2,754	0,072
	2,000	8,000	19,881	4,596	4,596	28,115	-11,004	2,504	0,072
	1,500	8,500	14,875	3,439	3,439	28,120	-11,004	2,254	0,072
	1,000	9,000	9,870	2,282	2,282	28,131	-11,003	2,004	0,072
	0,500	9,500	4,864	1,124	1,124	28,162	-11,002	1,753	0,072
	0,113	9,887	1,000	0,231	0,231	28,378	-10,996	1,557	0,068
	0,000	10,000	0,034	0,008	0,008	29,467	-10,943	1,525	0,028

Tank Calibrations - 2AGUACALIENTE1E

Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg

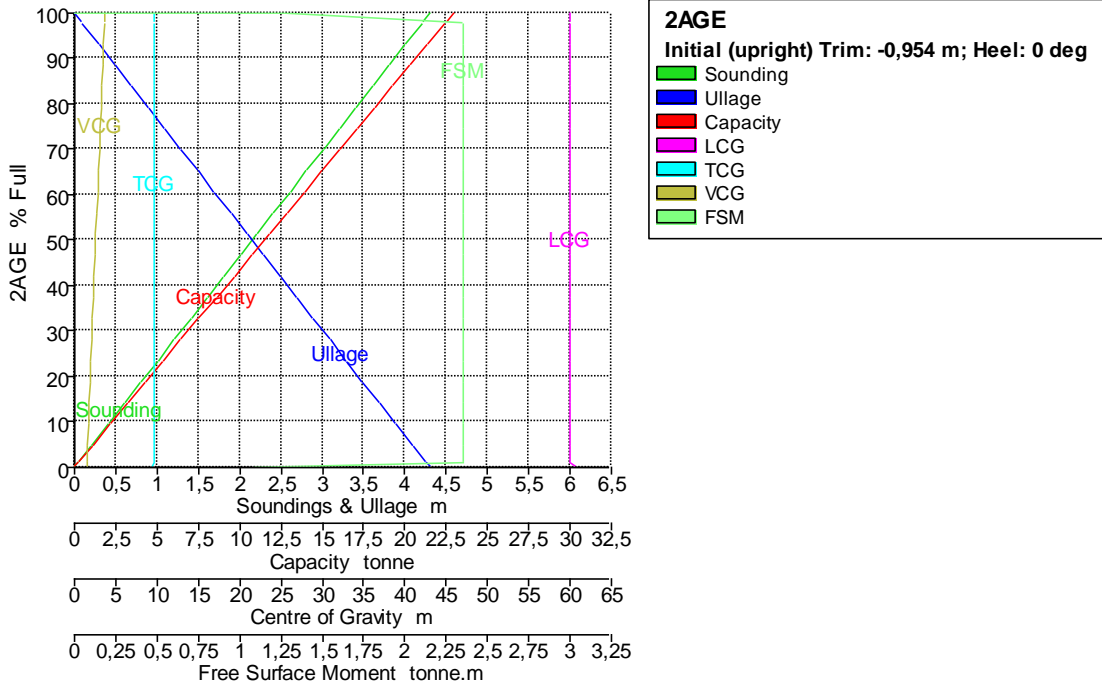


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AGUACALIENTE1E	10,000	0,000	100,000	78,757	78,757	23,280	11,004	6,859	0,000
	10,000	0,000	99,406	78,289	78,289	23,298	11,004	6,831	0,235

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	9,869	0,131	98,000	77,182	77,182	23,303	11,004	6,766	0,264
	9,860	0,140	97,900	77,103	77,103	23,304	11,004	6,761	0,264
	9,500	0,500	94,003	74,033	74,033	23,316	11,004	6,580	0,264
	9,000	1,000	88,590	69,770	69,770	23,336	11,004	6,329	0,264
	8,500	1,500	83,177	65,507	65,507	23,357	11,004	6,077	0,264
	8,000	2,000	77,764	61,244	61,244	23,382	11,004	5,825	0,264
	7,500	2,500	72,351	56,981	56,981	23,411	11,004	5,573	0,264
	7,000	3,000	66,938	52,718	52,718	23,444	11,004	5,320	0,264
	6,500	3,500	61,525	48,455	48,455	23,483	11,004	5,067	0,264
	6,000	4,000	56,113	44,192	44,192	23,530	11,003	4,814	0,264
	5,500	4,500	50,700	39,929	39,929	23,586	11,003	4,560	0,264
	5,000	5,000	45,287	35,666	35,666	23,657	11,003	4,304	0,264
	4,500	5,500	39,874	31,403	31,403	23,746	11,003	4,047	0,264
	4,000	6,000	34,461	27,140	27,140	23,863	11,003	3,788	0,264
	3,500	6,500	29,048	22,877	22,877	24,024	11,003	3,526	0,264
	3,000	7,000	23,635	18,614	18,614	24,258	11,002	3,258	0,264
	2,500	7,500	18,222	14,351	14,351	24,632	11,001	2,980	0,264
	2,000	8,000	12,831	10,105	10,105	25,306	11,000	2,678	0,254
	1,500	8,500	8,114	6,390	6,390	26,139	11,000	2,367	0,205
	1,000	9,000	4,404	3,469	3,469	26,954	10,998	2,062	0,156
	0,500	9,500	1,698	1,337	1,337	27,747	10,997	1,768	0,107
	0,328	9,672	1,000	0,788	0,788	28,015	10,995	1,673	0,090
	0,000	10,000	0,010	0,008	0,008	29,467	10,943	1,525	0,028

Tank Calibrations - 2AGE

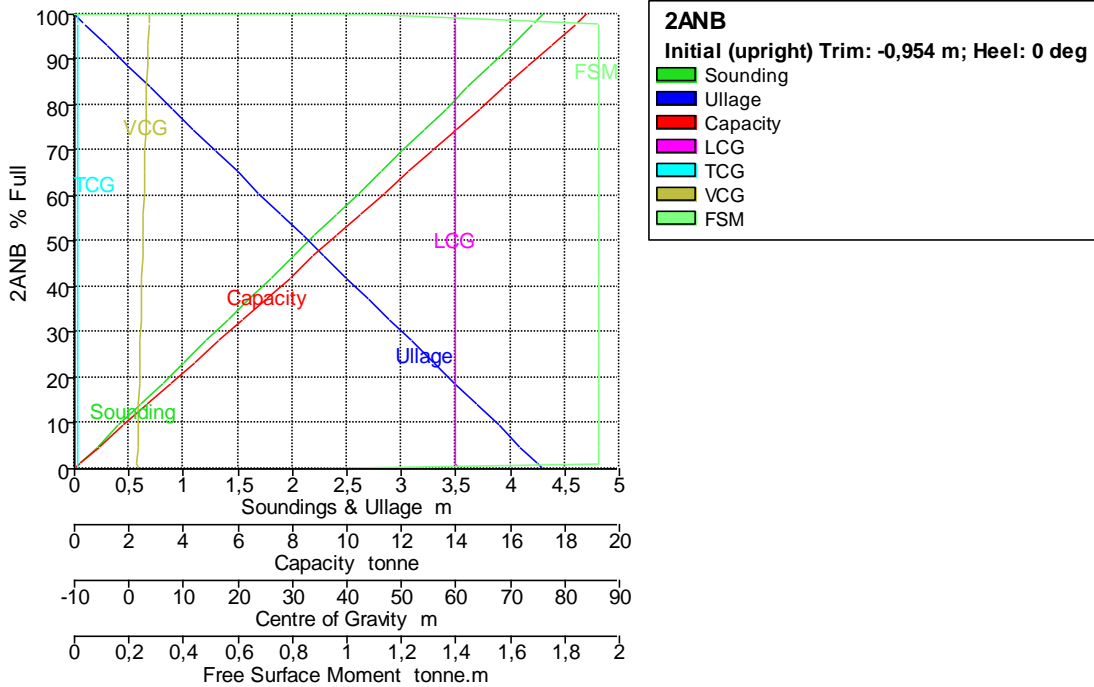
Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AGE	4,300	0,000	100,000	22,945	22,945	59,960	9,550	3,650	0,000
	4,300	0,000	99,934	22,930	22,930	59,961	9,550	3,649	1,272
	4,214	0,086	98,000	22,486	22,486	59,961	9,550	3,607	2,352
	4,210	0,090	97,900	22,463	22,463	59,961	9,550	3,605	2,352
	4,200	0,100	97,677	22,412	22,412	59,961	9,550	3,600	2,352
	4,000	0,300	93,025	21,344	21,344	59,961	9,550	3,500	2,352
	3,800	0,500	88,374	20,277	20,277	59,961	9,550	3,400	2,352
	3,600	0,700	83,723	19,210	19,210	59,961	9,550	3,300	2,352
	3,400	0,900	79,072	18,143	18,143	59,961	9,550	3,200	2,352
	3,200	1,100	74,421	17,076	17,076	59,961	9,550	3,100	2,352
	3,000	1,300	69,770	16,008	16,008	59,961	9,550	3,000	2,352
	2,800	1,500	65,118	14,941	14,941	59,962	9,550	2,900	2,352
	2,600	1,700	60,467	13,874	13,874	59,962	9,550	2,800	2,352
	2,400	1,900	55,816	12,807	12,807	59,962	9,550	2,700	2,352
	2,200	2,100	51,165	11,740	11,740	59,962	9,550	2,600	2,352
	2,000	2,300	46,514	10,672	10,672	59,962	9,550	2,500	2,352
	1,800	2,500	41,863	9,605	9,605	59,962	9,550	2,400	2,352
	1,600	2,700	37,211	8,538	8,538	59,963	9,550	2,300	2,352
	1,400	2,900	32,560	7,471	7,471	59,963	9,550	2,200	2,352
	1,200	3,100	27,909	6,404	6,404	59,964	9,550	2,100	2,352
	1,000	3,300	23,258	5,336	5,336	59,964	9,550	2,000	2,352
	0,800	3,500	18,607	4,269	4,269	59,966	9,550	1,900	2,352
	0,600	3,700	13,956	3,202	3,202	59,967	9,550	1,800	2,352
	0,400	3,900	9,304	2,135	2,135	59,971	9,550	1,700	2,352
	0,200	4,100	4,653	1,068	1,068	59,982	9,550	1,600	2,352
	0,043	4,257	1,000	0,229	0,229	60,064	9,550	1,522	2,352
	0,000	4,300	0,069	0,016	0,016	60,730	9,450	1,540	1,080

Tank Calibrations - 2ANB

Fluid Type = Specific gravity = 1
Permeability = 100 %
Trim = -0,954 m (+ve by stern); Heel = 0 deg



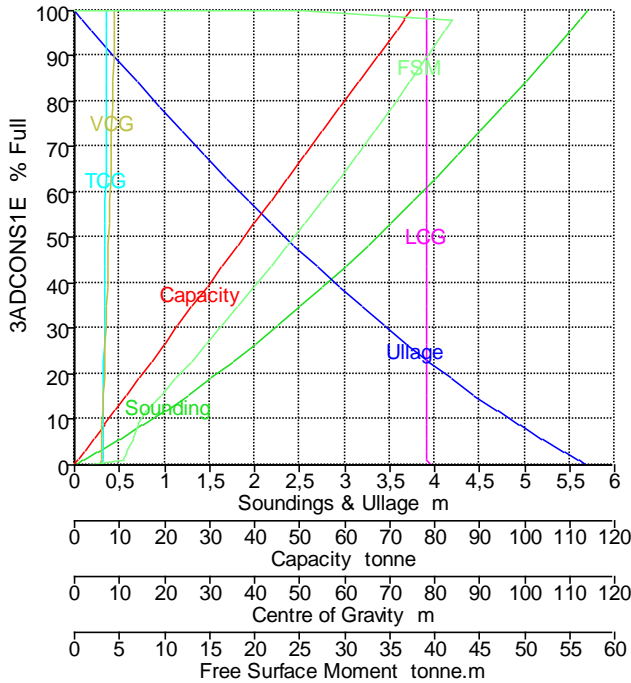
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2ANB	4,300	0,000	100,000	18,791	18,791	59,750	-9,550	3,650	0,000
	4,300	0,000	99,945	18,781	18,781	59,750	-9,550	3,649	1,088
	4,214	0,086	98,000	18,415	18,415	59,751	-9,550	3,607	1,927
	4,210	0,090	97,900	18,396	18,396	59,751	-9,550	3,605	1,927
	4,200	0,100	97,674	18,354	18,354	59,751	-9,550	3,600	1,927
	4,000	0,300	93,023	17,480	17,480	59,751	-9,550	3,500	1,927
	3,800	0,500	88,372	16,606	16,606	59,751	-9,550	3,400	1,927
	3,600	0,700	83,721	15,732	15,732	59,751	-9,550	3,300	1,927
	3,400	0,900	79,070	14,858	14,858	59,751	-9,550	3,200	1,927
	3,200	1,100	74,419	13,984	13,984	59,751	-9,550	3,100	1,927
	3,000	1,300	69,767	13,110	13,110	59,751	-9,550	3,000	1,927
	2,800	1,500	65,116	12,236	12,236	59,751	-9,550	2,900	1,927
	2,600	1,700	60,465	11,362	11,362	59,751	-9,550	2,800	1,927
	2,400	1,900	55,814	10,488	10,488	59,751	-9,550	2,700	1,927
	2,200	2,100	51,163	9,614	9,614	59,751	-9,550	2,600	1,927
	2,000	2,300	46,512	8,740	8,740	59,752	-9,550	2,500	1,927
	1,800	2,500	41,860	7,866	7,866	59,752	-9,550	2,400	1,927
	1,600	2,700	37,209	6,992	6,992	59,752	-9,550	2,300	1,927
	1,400	2,900	32,558	6,118	6,118	59,752	-9,550	2,200	1,927
	1,200	3,100	27,907	5,244	5,244	59,753	-9,550	2,100	1,927
	1,000	3,300	23,256	4,370	4,370	59,753	-9,550	2,000	1,927
	0,800	3,500	18,605	3,496	3,496	59,754	-9,550	1,900	1,927
	0,600	3,700	13,953	2,622	2,622	59,755	-9,550	1,800	1,927
	0,400	3,900	9,302	1,748	1,748	59,758	-9,550	1,700	1,927
	0,200	4,100	4,651	0,874	0,874	59,765	-9,550	1,600	1,927
	0,043	4,257	1,000	0,188	0,188	59,820	-9,550	1,522	1,927
	0,000	4,300	0,055	0,010	0,010	60,383	-9,337	1,580	0,839

Tank Calibrations - 3ADCONS1E

Fluid Type = AD Specific gravity = 1

Permeability = 100 %

Trim = -0,954 m (+ve by stern); Heel = 0 deg



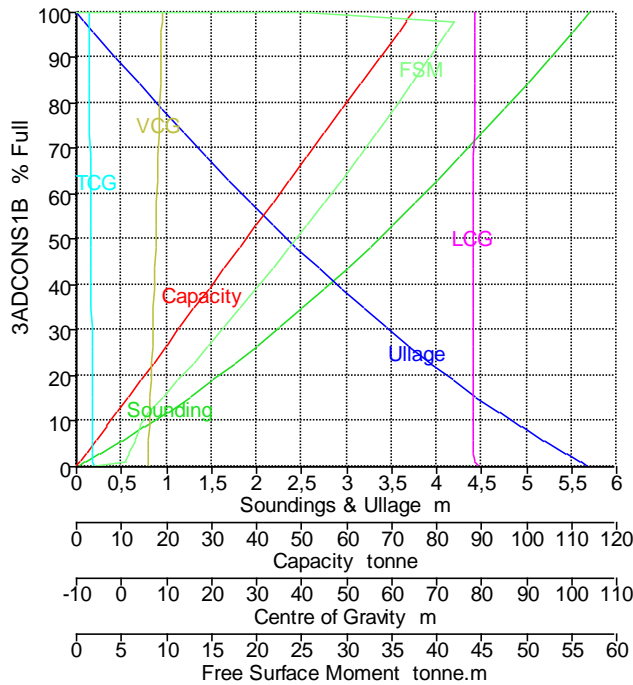
3ADCONS1E
 Initial (upright) Trim: -0,954 m; Heel: 0 deg

- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3ADCONS1E	5,700	0,000	100,000	74,866	74,866	78,328	7,156	8,995	0,000
	5,700	0,000	99,900	74,791	74,791	78,329	7,155	8,992	25,324
	5,614	0,086	98,000	73,369	73,369	78,329	7,145	8,944	42,043
	5,610	0,090	97,900	73,294	73,294	78,329	7,144	8,942	42,009
	5,500	0,200	95,388	71,414	71,414	78,328	7,130	8,878	41,134
	5,250	0,450	89,727	67,176	67,176	78,326	7,097	8,734	39,144
	5,000	0,700	84,164	63,010	63,010	78,324	7,063	8,589	37,160
	4,750	0,950	78,700	58,920	58,920	78,322	7,028	8,444	35,184
	4,500	1,200	73,341	54,907	54,907	78,320	6,993	8,299	33,217
	4,250	1,450	68,088	50,975	50,975	78,318	6,956	8,154	31,261
	4,000	1,700	62,947	47,126	47,126	78,315	6,919	8,010	29,318
	3,750	1,950	57,922	43,364	43,364	78,313	6,881	7,865	27,390
	3,500	2,200	53,016	39,691	39,691	78,310	6,841	7,721	25,479
	3,250	2,450	48,235	36,112	36,112	78,307	6,801	7,577	23,588
	3,000	2,700	43,584	32,630	32,630	78,304	6,760	7,433	21,719
	2,750	2,950	39,069	29,249	29,249	78,301	6,718	7,290	19,875
	2,500	3,200	34,696	25,976	25,976	78,298	6,675	7,147	18,061
	2,250	3,450	30,473	22,814	22,814	78,294	6,631	7,004	16,279
	2,000	3,700	26,408	19,771	19,771	78,291	6,587	6,863	14,535
	1,750	3,950	22,509	16,851	16,851	78,287	6,543	6,722	12,833
	1,500	4,200	18,786	14,064	14,064	78,284	6,500	6,583	11,178
	1,250	4,450	15,251	11,418	11,418	78,281	6,459	6,445	9,576
	1,000	4,700	11,918	8,922	8,922	78,278	6,424	6,311	8,035
	0,750	4,950	8,772	6,567	6,567	78,278	6,398	6,181	7,117
	0,500	5,200	5,739	4,296	4,296	78,281	6,373	6,052	6,465
	0,250	5,450	2,810	2,104	2,104	78,295	6,346	5,925	5,878
	0,091	5,609	1,000	0,749	0,749	78,352	6,319	5,845	5,536
	0,000	5,700	0,035	0,026	0,026	79,447	6,030	5,799	1,413

Tank Calibrations - 3ADCONS1B

Fluid Type = AD Specific gravity = 1
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



3ADCONS1B
 Initial (upright) Trim: -0,954 m; Heel: 0 deg

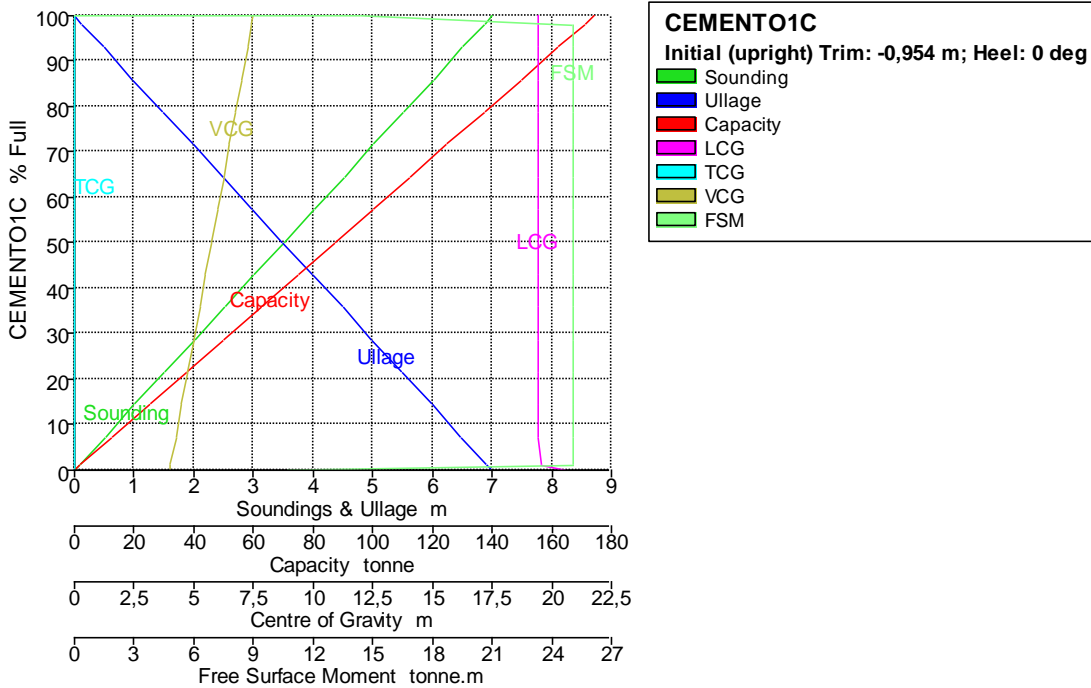
- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3ADCONS1B	5,700	0,000	100,000	74,866	74,866	78,328	-7,156	8,995	0,000
	5,700	0,000	99,900	74,791	74,791	78,329	-7,155	8,992	25,324
	5,614	0,086	98,000	73,369	73,369	78,329	-7,145	8,944	42,043
	5,610	0,090	97,900	73,294	73,294	78,329	-7,144	8,942	42,009
	5,500	0,200	95,388	71,414	71,414	78,328	-7,130	8,878	41,134
	5,250	0,450	89,727	67,176	67,176	78,326	-7,097	8,734	39,144
	5,000	0,700	84,164	63,010	63,010	78,324	-7,063	8,589	37,160
	4,750	0,950	78,700	58,920	58,920	78,322	-7,028	8,444	35,184
	4,500	1,200	73,341	54,907	54,907	78,320	-6,993	8,299	33,217
	4,250	1,450	68,088	50,975	50,975	78,318	-6,956	8,154	31,261
	4,000	1,700	62,947	47,126	47,126	78,315	-6,919	8,010	29,318
	3,750	1,950	57,922	43,364	43,364	78,313	-6,881	7,865	27,390
	3,500	2,200	53,016	39,691	39,691	78,310	-6,841	7,721	25,479
	3,250	2,450	48,235	36,112	36,112	78,307	-6,801	7,577	23,588
	3,000	2,700	43,584	32,630	32,630	78,304	-6,760	7,433	21,719
	2,750	2,950	39,069	29,249	29,249	78,301	-6,718	7,290	19,875
	2,500	3,200	34,696	25,976	25,976	78,298	-6,675	7,147	18,061
	2,250	3,450	30,473	22,814	22,814	78,294	-6,631	7,004	16,279
	2,000	3,700	26,408	19,771	19,771	78,291	-6,587	6,863	14,535
	1,750	3,950	22,509	16,851	16,851	78,287	-6,543	6,722	12,833
	1,500	4,200	18,786	14,064	14,064	78,284	-6,500	6,583	11,178
	1,250	4,450	15,251	11,418	11,418	78,281	-6,459	6,445	9,576
	1,000	4,700	11,918	8,922	8,922	78,278	-6,424	6,311	8,035
	0,750	4,950	8,772	6,567	6,567	78,278	-6,398	6,181	7,117
	0,500	5,200	5,739	4,296	4,296	78,281	-6,373	6,052	6,465
	0,250	5,450	2,810	2,104	2,104	78,295	-6,346	5,925	5,878
	0,091	5,609	1,000	0,749	0,749	78,352	-6,319	5,845	5,536

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,000	5,700	0,035	0,026	0,026	79,447	-6,030	5,799	1,413

Tank Calibrations - CEMENTO1C

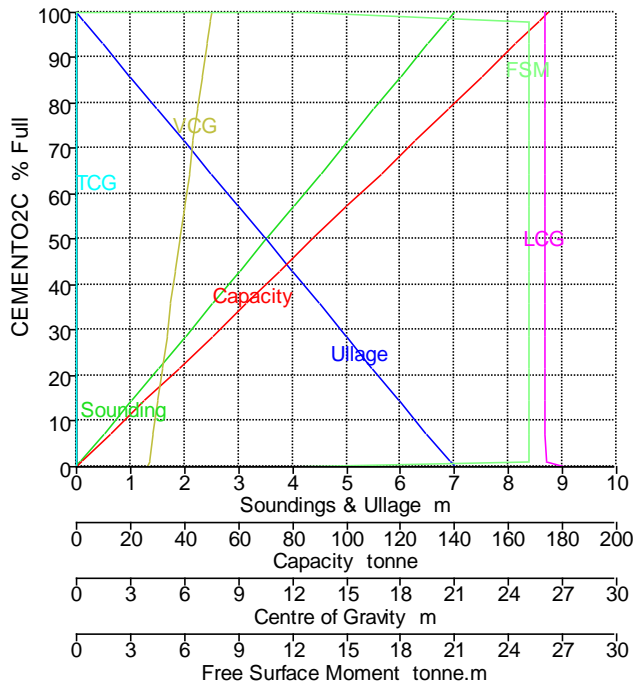
Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO1C	7,000	0,000	100,000	87,245	174,490	19,405	0,000	7,500	0,000
	7,000	0,000	99,935	87,188	174,377	19,406	0,000	7,498	14,451
	6,861	0,139	98,000	85,500	171,000	19,407	0,000	7,430	25,115
	6,854	0,146	97,900	85,413	170,826	19,407	0,000	7,427	25,115
	6,500	0,500	92,847	81,005	162,009	19,407	0,000	7,250	25,115
	6,000	1,000	85,705	74,773	149,546	19,407	0,000	7,000	25,115
	5,500	1,500	78,562	68,541	137,082	19,407	0,000	6,750	25,115
	5,000	2,000	71,419	62,309	124,619	19,407	0,000	6,500	25,115
	4,500	2,500	64,276	56,078	112,155	19,408	0,000	6,250	25,115
	4,000	3,000	57,133	49,846	99,692	19,408	0,000	6,000	25,115
	3,500	3,500	49,990	43,614	87,228	19,408	0,000	5,750	25,115
	3,000	4,000	42,847	37,382	74,764	19,409	0,000	5,500	25,115
	2,500	4,500	35,705	31,150	62,301	19,409	0,000	5,250	25,115
	2,000	5,000	28,562	24,919	49,837	19,410	0,000	5,000	25,115
	1,500	5,500	21,419	18,687	37,374	19,412	0,000	4,750	25,115
	1,000	6,000	14,276	12,455	24,910	19,415	0,000	4,500	25,115
	0,500	6,500	7,133	6,223	12,447	19,425	0,000	4,250	25,115
	0,071	6,929	1,000	0,872	1,745	19,545	0,000	4,036	25,115
	0,000	7,000	0,055	0,048	0,096	20,600	0,000	4,011	10,664

Tank Calibrations - CEMENTO2C

Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



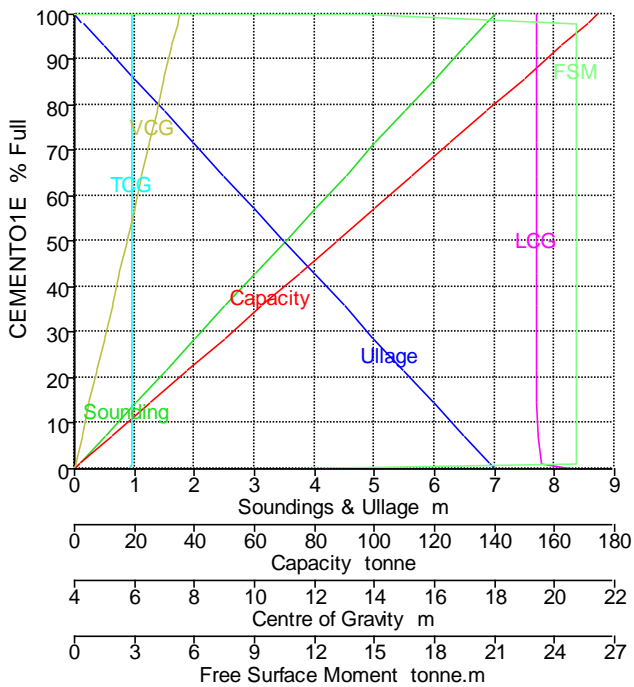
CEMENTO2C
 Initial (upright) Trim: -0,954 m; Heel: 0 deg

- Sounding
- Ullage
- Capacity
- LCG
- TCG
- VCG
- FSM

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO2C	7,000	0,000	100,000	87,416	174,832	25,999	0,000	7,500	0,000
	7,000	0,000	99,946	87,369	174,738	25,999	0,000	7,498	12,688
	6,859	0,141	98,000	85,667	171,335	26,000	0,000	7,430	25,114
	6,852	0,148	97,900	85,580	171,160	26,000	0,000	7,427	25,114
	6,500	0,500	92,870	81,183	162,366	26,000	0,000	7,250	25,114
	6,000	1,000	85,727	74,939	149,878	26,000	0,000	7,000	25,114
	5,500	1,500	78,584	68,695	137,390	26,001	0,000	6,750	25,114
	5,000	2,000	71,441	62,451	124,902	26,001	0,000	6,500	25,114
	4,500	2,500	64,299	56,207	112,414	26,001	0,000	6,250	25,114
	4,000	3,000	57,156	49,963	99,926	26,001	0,000	6,000	25,114
	3,500	3,500	50,013	43,719	87,438	26,002	0,000	5,750	25,114
	3,000	4,000	42,870	37,475	74,950	26,002	0,000	5,500	25,114
	2,500	4,500	35,727	31,231	62,462	26,003	0,000	5,250	25,114
	2,000	5,000	28,584	24,987	49,974	26,004	0,000	5,000	25,114
	1,500	5,500	21,441	18,743	37,486	26,005	0,000	4,750	25,114
	1,000	6,000	14,299	12,499	24,998	26,009	0,000	4,500	25,114
	0,500	6,500	7,156	6,255	12,510	26,018	0,000	4,251	25,114
	0,069	6,931	1,000	0,874	1,748	26,139	0,000	4,036	25,114
	0,000	7,000	0,067	0,058	0,116	27,133	0,000	4,011	12,426

Tank Calibrations - CEMENTO1E

Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



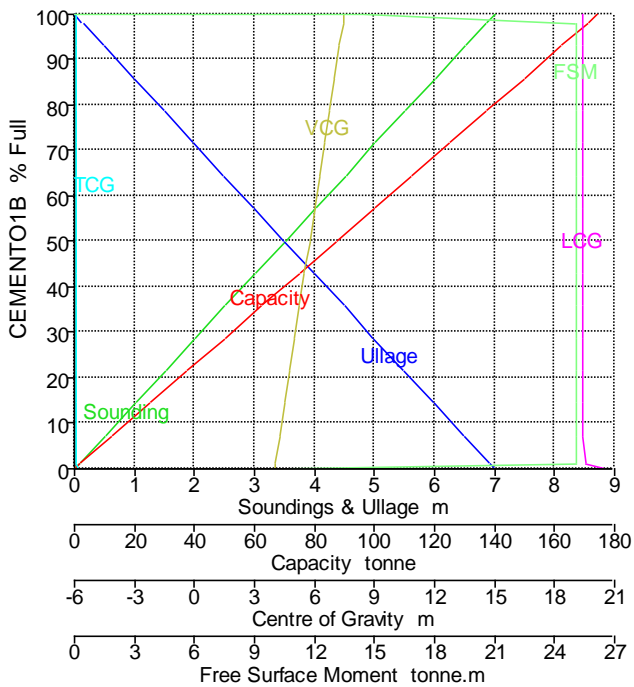
CEMENTO1E
 Initial (upright) Trim: -0,954 m; Heel: 0 deg

- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO1E	7,000	0,000	100,000	87,245	174,490	19,405	5,900	7,500	0,000
	7,000	0,000	99,935	87,188	174,377	19,406	5,900	7,498	14,451
	6,861	0,139	98,000	85,500	171,000	19,407	5,900	7,430	25,115
	6,854	0,146	97,900	85,413	170,826	19,407	5,900	7,427	25,115
	6,500	0,500	92,847	81,005	162,009	19,407	5,900	7,250	25,115
	6,000	1,000	85,705	74,773	149,546	19,407	5,900	7,000	25,115
	5,500	1,500	78,562	68,541	137,082	19,407	5,900	6,750	25,115
	5,000	2,000	71,419	62,309	124,619	19,407	5,900	6,500	25,115
	4,500	2,500	64,276	56,078	112,155	19,408	5,900	6,250	25,115
	4,000	3,000	57,133	49,846	99,692	19,408	5,900	6,000	25,115
	3,500	3,500	49,990	43,614	87,228	19,408	5,900	5,750	25,115
	3,000	4,000	42,847	37,382	74,764	19,409	5,900	5,500	25,115
	2,500	4,500	35,705	31,150	62,301	19,409	5,900	5,250	25,115
	2,000	5,000	28,562	24,919	49,837	19,410	5,900	5,000	25,115
	1,500	5,500	21,419	18,687	37,374	19,412	5,900	4,750	25,115
	1,000	6,000	14,276	12,455	24,910	19,415	5,900	4,500	25,115
	0,500	6,500	7,133	6,223	12,447	19,425	5,900	4,250	25,115
	0,071	6,929	1,000	0,872	1,745	19,545	5,900	4,036	25,115
	0,000	7,000	0,055	0,048	0,096	20,600	5,865	4,011	10,664

Tank Calibrations - CEMENTO1B

Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



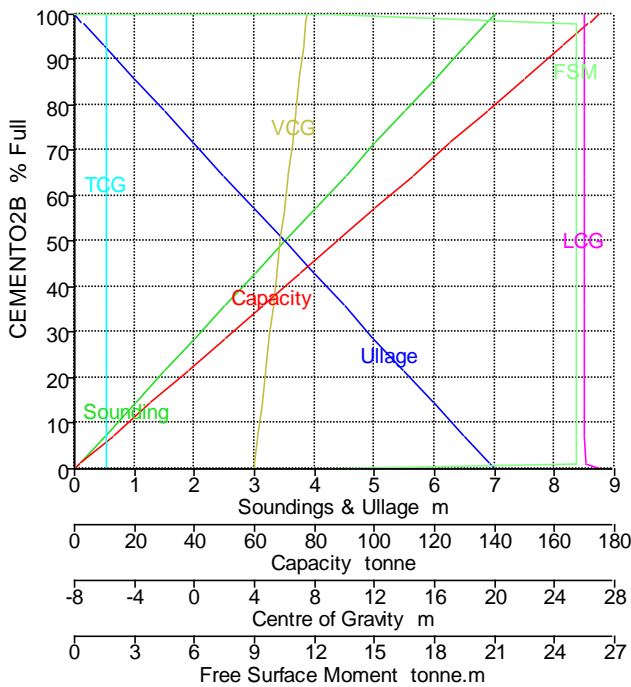
CEMENTO1B
 Initial (upright) Trim: -0,954 m; Heel: 0 deg

- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO1B	7,000	0,000	100,000	87,245	174,490	19,405	-5,900	7,500	0,000
	7,000	0,000	99,935	87,188	174,377	19,406	-5,900	7,498	14,451
	6,861	0,139	98,000	85,500	171,000	19,407	-5,900	7,430	25,115
	6,854	0,146	97,900	85,413	170,826	19,407	-5,900	7,427	25,115
	6,500	0,500	92,847	81,005	162,009	19,407	-5,900	7,250	25,115
	6,000	1,000	85,705	74,773	149,546	19,407	-5,900	7,000	25,115
	5,500	1,500	78,562	68,541	137,082	19,407	-5,900	6,750	25,115
	5,000	2,000	71,419	62,309	124,619	19,407	-5,900	6,500	25,115
	4,500	2,500	64,276	56,078	112,155	19,408	-5,900	6,250	25,115
	4,000	3,000	57,133	49,846	99,692	19,408	-5,900	6,000	25,115
	3,500	3,500	49,990	43,614	87,228	19,408	-5,900	5,750	25,115
	3,000	4,000	42,847	37,382	74,764	19,409	-5,900	5,500	25,115
	2,500	4,500	35,705	31,150	62,301	19,409	-5,900	5,250	25,115
	2,000	5,000	28,562	24,919	49,837	19,410	-5,900	5,000	25,115
	1,500	5,500	21,419	18,687	37,374	19,412	-5,900	4,750	25,115
	1,000	6,000	14,276	12,455	24,910	19,415	-5,900	4,500	25,115
	0,500	6,500	7,133	6,223	12,447	19,425	-5,900	4,250	25,115
	0,071	6,929	1,000	0,872	1,745	19,545	-5,900	4,036	25,115
	0,000	7,000	0,055	0,048	0,096	20,600	-5,865	4,011	10,664

Tank Calibrations - CEMENTO2B

Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



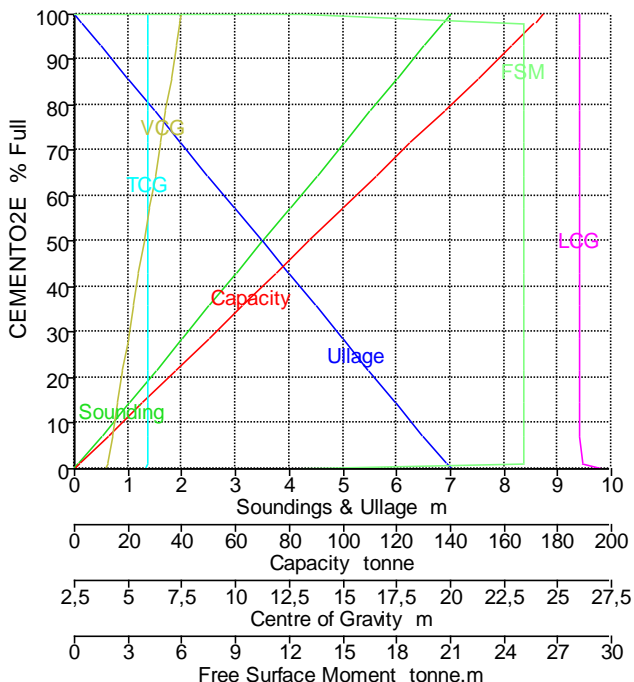
CEMENTO2B
 Initial (upright) Trim: -0,954 m; Heel: 0 deg

- Sounding
- Ullage
- Capacity
- LCG
- TCG
- VCG
- FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO2B	7,000	0,000	100,000	87,416	174,832	25,999	-5,900	7,500	0,000
	7,000	0,000	99,946	87,369	174,738	25,999	-5,900	7,498	12,688
	6,859	0,141	98,000	85,667	171,335	26,000	-5,900	7,430	25,114
	6,852	0,148	97,900	85,580	171,160	26,000	-5,900	7,427	25,114
	6,500	0,500	92,870	81,183	162,366	26,000	-5,900	7,250	25,114
	6,000	1,000	85,727	74,939	149,878	26,000	-5,900	7,000	25,114
	5,500	1,500	78,584	68,695	137,390	26,001	-5,900	6,750	25,114
	5,000	2,000	71,441	62,451	124,902	26,001	-5,900	6,500	25,114
	4,500	2,500	64,299	56,207	112,414	26,001	-5,900	6,250	25,114
	4,000	3,000	57,156	49,963	99,926	26,001	-5,900	6,000	25,114
	3,500	3,500	50,013	43,719	87,438	26,002	-5,900	5,750	25,114
	3,000	4,000	42,870	37,475	74,950	26,002	-5,900	5,500	25,114
	2,500	4,500	35,727	31,231	62,462	26,003	-5,900	5,250	25,114
	2,000	5,000	28,584	24,987	49,974	26,004	-5,900	5,000	25,114
	1,500	5,500	21,441	18,743	37,486	26,005	-5,900	4,750	25,114
	1,000	6,000	14,299	12,499	24,998	26,009	-5,900	4,500	25,114
	0,500	6,500	7,156	6,255	12,510	26,018	-5,900	4,251	25,114
	0,069	6,931	1,000	0,874	1,748	26,139	-5,900	4,036	25,114
	0,000	7,000	0,067	0,058	0,116	27,133	-5,871	4,011	12,426

Tank Calibrations - CEMENTO2E

Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %
 Trim = -0,954 m (+ve by stern); Heel = 0 deg



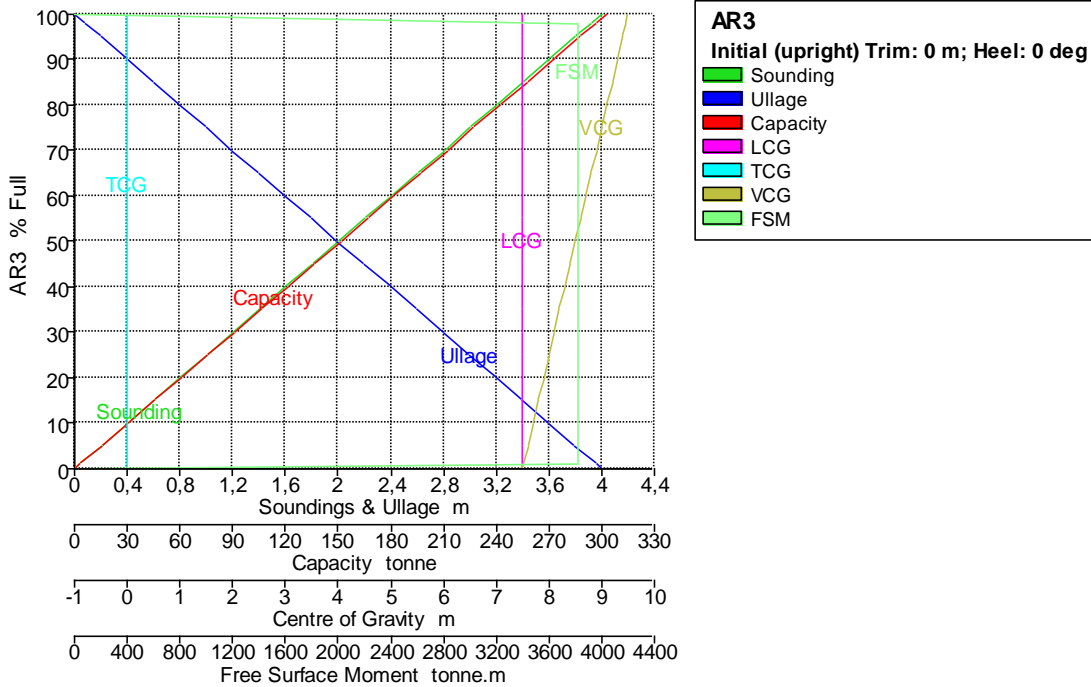
CEMENTO2E
 Initial (upright) Trim: -0,954 m; Heel: 0 deg

- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO2E	7,000	0,000	100,000	87,416	174,832	25,999	5,900	7,500	0,000
	7,000	0,000	99,946	87,369	174,738	25,999	5,900	7,498	12,688
	6,859	0,141	98,000	85,667	171,335	26,000	5,900	7,430	25,114
	6,852	0,148	97,900	85,580	171,160	26,000	5,900	7,427	25,114
	6,500	0,500	92,870	81,183	162,366	26,000	5,900	7,250	25,114
	6,000	1,000	85,727	74,939	149,878	26,000	5,900	7,000	25,114
	5,500	1,500	78,584	68,695	137,390	26,001	5,900	6,750	25,114
	5,000	2,000	71,441	62,451	124,902	26,001	5,900	6,500	25,114
	4,500	2,500	64,299	56,207	112,414	26,001	5,900	6,250	25,114
	4,000	3,000	57,156	49,963	99,926	26,001	5,900	6,000	25,114
	3,500	3,500	50,013	43,719	87,438	26,002	5,900	5,750	25,114
	3,000	4,000	42,870	37,475	74,950	26,002	5,900	5,500	25,114
	2,500	4,500	35,727	31,231	62,462	26,003	5,900	5,250	25,114
	2,000	5,000	28,584	24,987	49,974	26,004	5,900	5,000	25,114
	1,500	5,500	21,441	18,743	37,486	26,005	5,900	4,750	25,114
	1,000	6,000	14,299	12,499	24,998	26,009	5,900	4,500	25,114
	0,500	6,500	7,156	6,255	12,510	26,018	5,900	4,251	25,114
	0,069	6,931	1,000	0,874	1,748	26,139	5,900	4,036	25,114
	0,000	7,000	0,067	0,058	0,116	27,133	5,871	4,011	12,426

Tank Calibrations - AR3

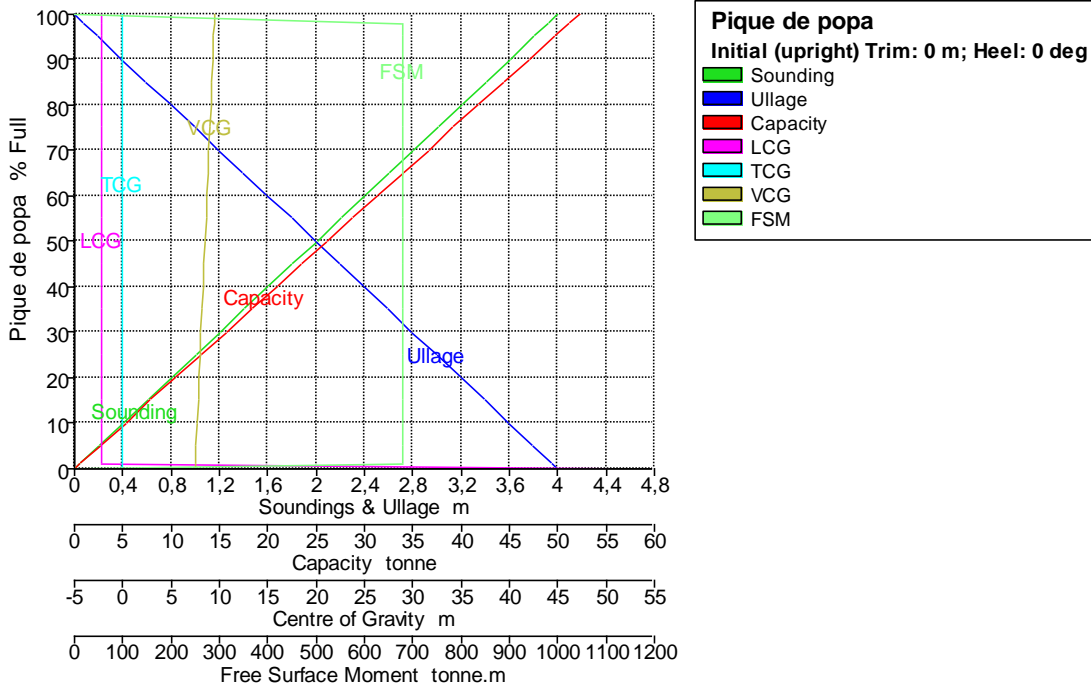
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
AR3	4,000	0,000	100,000	295,412	302,798	7,500	0,000	9,500	0,000
	3,920	0,080	98,000	289,504	296,742	7,500	0,000	9,460	3823,006
	3,916	0,084	97,900	289,209	296,439	7,500	0,000	9,458	3823,006
	3,800	0,200	95,000	280,642	287,658	7,500	0,000	9,400	3823,012
	3,600	0,400	90,000	265,871	272,518	7,500	0,000	9,300	3823,020
	3,400	0,600	85,000	251,100	257,378	7,500	0,000	9,200	3823,028
	3,200	0,800	80,000	236,330	242,238	7,500	0,000	9,100	3823,035
	3,000	1,000	75,000	221,559	227,098	7,500	0,000	9,000	3823,041
	2,800	1,200	70,000	206,789	211,958	7,500	0,000	8,900	3823,046
	2,600	1,400	65,000	192,018	196,818	7,500	0,000	8,800	3823,050
	2,400	1,600	60,000	177,247	181,678	7,500	0,000	8,700	3823,052
	2,200	1,800	55,000	162,477	166,538	7,500	0,000	8,600	3823,053
	2,000	2,000	50,000	147,706	151,399	7,500	0,000	8,500	3823,053
	1,800	2,200	45,000	132,935	136,259	7,500	0,000	8,400	3823,050
	1,600	2,400	40,000	118,165	121,119	7,500	0,000	8,300	3823,046
	1,400	2,600	35,000	103,394	105,979	7,500	0,000	8,200	3823,039
	1,200	2,800	30,000	88,623	90,839	7,500	0,000	8,100	3823,029
	1,000	3,000	25,000	73,853	75,699	7,500	0,000	8,000	3823,015
	0,800	3,200	20,000	59,082	60,559	7,500	0,000	7,900	3822,997
	0,600	3,400	15,000	44,311	45,419	7,500	0,000	7,800	3822,973
	0,400	3,600	10,000	29,541	30,279	7,500	0,000	7,700	3822,940
	0,200	3,800	5,000	14,770	15,140	7,500	0,000	7,600	3822,893
	0,040	3,960	1,000	2,954	3,028	7,500	0,000	7,520	3822,838
	0,000	4,000	0,000	0,000	0,000	7,500	0,000	7,500	0,000

Tank Calibrations - Pique de popa

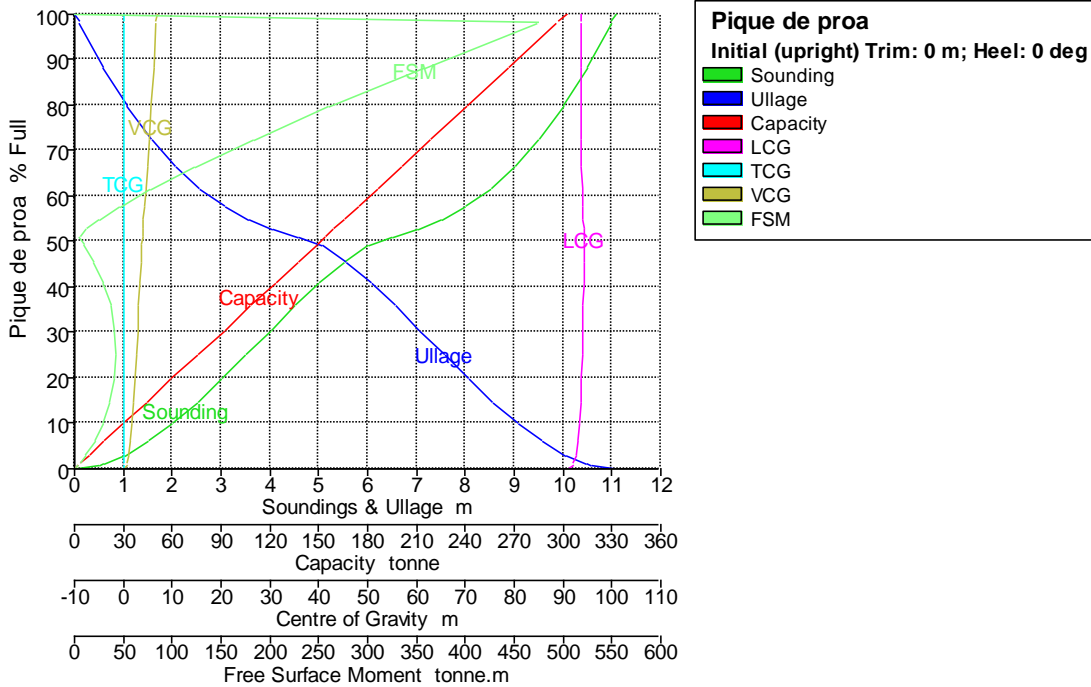
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Pique de popa	4,000	0,000	100,000	50,917	52,190	-2,259	0,000	9,500	0,000
	3,920	0,080	98,000	49,898	51,146	-2,259	0,000	9,460	679,993
	3,916	0,084	97,900	49,847	51,094	-2,259	0,000	9,458	679,993
	3,800	0,200	95,000	48,371	49,580	-2,259	0,000	9,400	679,993
	3,600	0,400	90,000	45,825	46,971	-2,259	0,000	9,300	679,993
	3,400	0,600	85,000	43,279	44,361	-2,259	0,000	9,200	679,993
	3,200	0,800	80,000	40,733	41,752	-2,259	0,000	9,100	679,993
	3,000	1,000	75,000	38,187	39,142	-2,259	0,000	9,000	679,993
	2,800	1,200	70,000	35,641	36,532	-2,259	0,000	8,900	679,993
	2,600	1,400	65,000	33,096	33,923	-2,259	0,000	8,800	679,993
	2,400	1,600	60,000	30,550	31,313	-2,259	0,000	8,700	679,993
	2,200	1,800	54,999	28,004	28,704	-2,259	0,000	8,600	679,993
	2,000	2,000	49,999	25,458	26,094	-2,259	0,000	8,500	679,993
	1,800	2,200	44,999	22,912	23,485	-2,259	0,000	8,400	679,993
	1,600	2,400	39,999	20,366	20,875	-2,259	0,000	8,300	679,993
	1,400	2,600	34,999	17,820	18,266	-2,259	0,000	8,200	679,993
	1,200	2,800	29,999	15,275	15,656	-2,259	0,000	8,100	679,993
	1,000	3,000	24,999	12,729	13,047	-2,259	0,000	8,000	679,993
	0,800	3,200	19,999	10,183	10,437	-2,259	0,000	7,900	679,993
	0,600	3,400	14,999	7,637	7,828	-2,259	0,000	7,800	679,993
	0,400	3,600	9,999	5,091	5,218	-2,259	0,000	7,700	679,993
	0,200	3,800	4,999	2,545	2,609	-2,259	0,000	7,600	679,993
	0,040	3,960	1,000	0,509	0,522	-2,259	0,000	7,520	678,989
	0,000	4,000	0,000	0,000	0,000	50,418	0,000	7,500	0,000

Tank Calibrations - Pique de proa

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



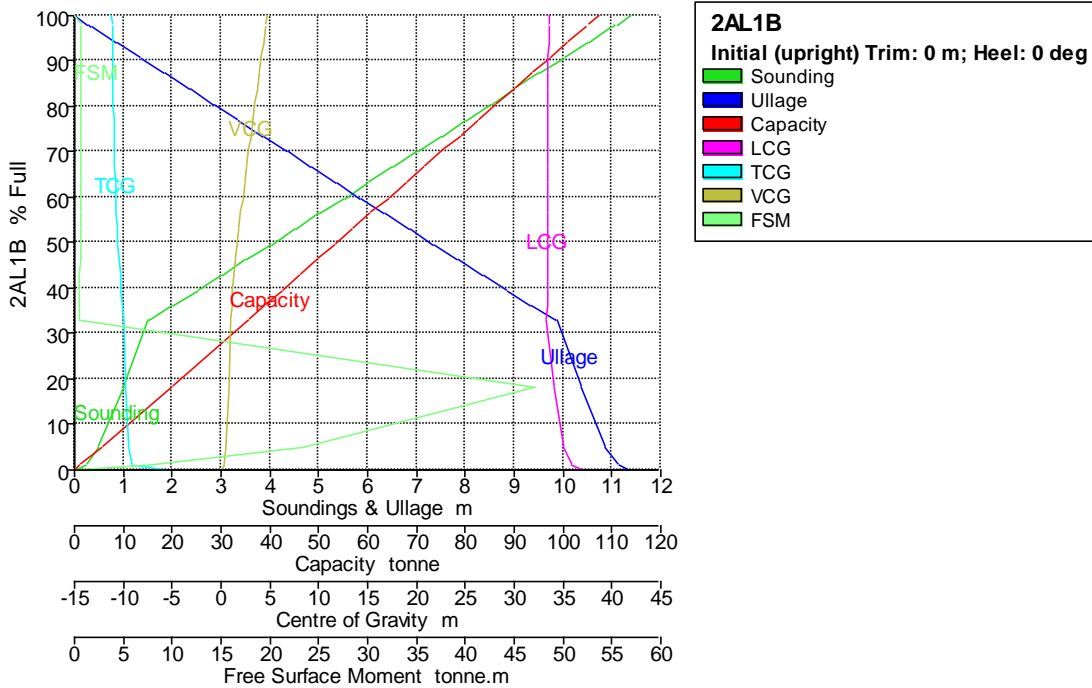
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Pique de proa	11,089	0,000	100,000	294,566	301,930	93,673	0,000	6,855	0,000
	11,000	0,089	98,072	288,887	296,109	93,672	0,000	6,765	475,455
	10,997	0,093	98,000	288,675	295,892	93,672	0,000	6,762	474,582
	10,992	0,098	97,900	288,380	295,590	93,672	0,000	6,757	473,366
	10,500	0,589	88,147	259,650	266,141	93,681	0,000	6,269	357,016
	10,000	1,089	79,618	234,529	240,392	93,714	0,000	5,798	259,791
	9,500	1,589	72,392	213,242	218,573	93,770	0,000	5,362	182,022
	9,000	2,089	66,375	195,518	200,406	93,845	0,000	4,972	121,769
	8,500	2,589	61,474	181,081	185,608	93,933	0,000	4,637	76,893
	8,000	3,089	57,588	169,636	173,876	94,027	0,000	4,365	45,093
	7,500	3,589	54,618	160,887	164,909	94,120	0,000	4,157	23,971
	7,000	4,089	52,460	154,529	158,392	94,202	0,000	4,013	11,109
	6,500	4,589	51,007	150,248	154,004	94,267	0,000	3,928	4,196
	6,000	5,089	49,087	144,595	148,210	94,294	0,000	3,829	9,177
	5,500	5,589	45,422	133,797	137,142	94,281	0,000	3,642	20,379
	5,000	6,089	40,813	120,221	123,227	94,239	0,000	3,416	30,160
	4,500	6,589	35,682	105,107	107,734	94,170	0,000	3,165	37,257
	4,000	7,089	30,297	89,244	91,475	94,078	0,000	2,899	41,399
	3,500	7,589	24,852	73,206	75,037	93,957	0,000	2,622	42,534
	3,000	8,089	19,518	57,494	58,932	93,803	0,000	2,334	40,721
	2,500	8,589	14,461	42,599	43,664	93,605	0,000	2,038	36,161
	2,000	9,089	9,865	29,058	29,784	93,355	0,000	1,736	29,311
	1,500	9,589	5,916	17,427	17,863	93,043	0,000	1,429	20,988
	1,000	10,089	2,793	8,226	8,432	92,640	0,000	1,116	12,128
	0,593	10,497	1,000	2,946	3,019	92,185	0,000	0,850	5,270
	0,500	10,589	0,704	2,074	2,125	92,052	0,000	0,785	3,881
	0,000	11,089	0,000	0,000	0,000	90,624	0,000	0,411	0,000

Tank Calibrations - 2AL1B

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

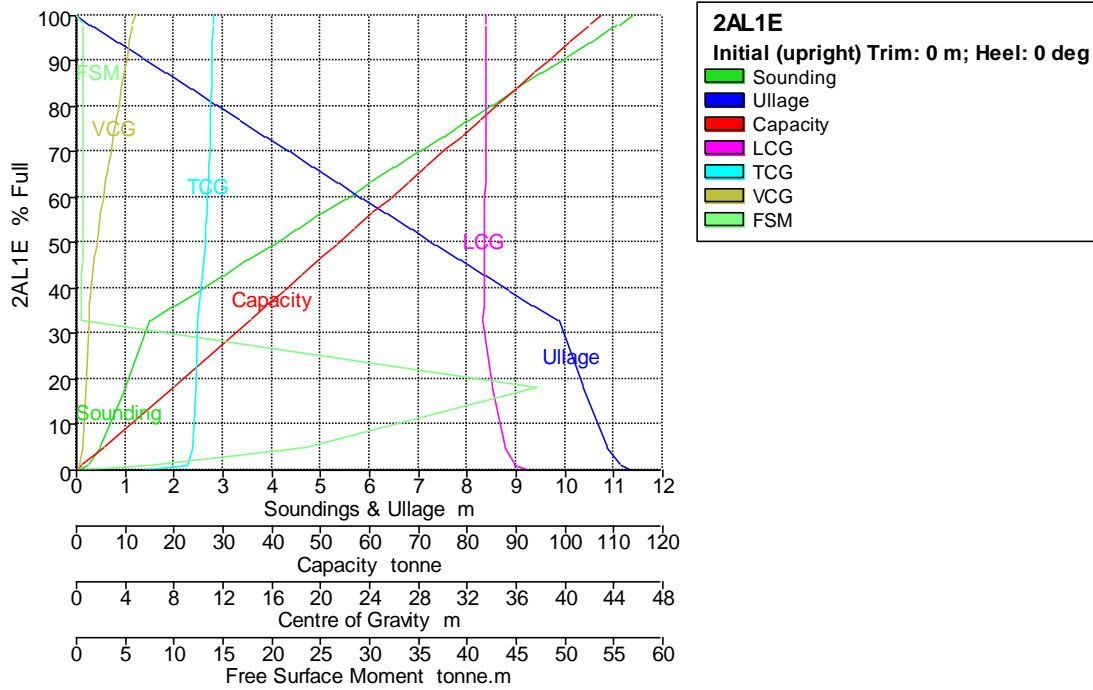
Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL1B	11,367	0,000	100,000	104,651	107,268	33,514	-11,172	4,764	0,000
	11,076	0,292	98,000	102,558	105,122	33,512	-11,159	4,629	0,609
	11,061	0,306	97,900	102,454	105,015	33,512	-11,158	4,623	0,609
	11,000	0,367	97,482	102,016	104,567	33,512	-11,156	4,595	0,609
	10,500	0,867	94,053	98,428	100,889	33,508	-11,132	4,365	0,609
	10,000	1,367	90,624	94,839	97,210	33,505	-11,106	4,138	0,609
	9,500	1,867	87,194	91,250	93,531	33,501	-11,079	3,912	0,610
	9,000	2,367	83,764	87,660	89,852	33,497	-11,049	3,688	0,610
	8,500	2,867	80,334	84,071	86,173	33,493	-11,016	3,466	0,609
	8,000	3,367	76,905	80,482	82,494	33,488	-10,981	3,247	0,609
	7,500	3,867	73,477	76,894	78,817	33,483	-10,943	3,030	0,609
	7,000	4,367	70,050	73,308	75,141	33,477	-10,900	2,817	0,607
	6,500	4,867	66,626	69,725	71,469	33,471	-10,854	2,609	0,605
	6,000	5,367	63,206	66,145	67,799	33,464	-10,802	2,404	0,604
	5,500	5,867	59,787	62,568	64,132	33,456	-10,745	2,205	0,603
	5,000	6,367	56,372	58,994	60,469	33,447	-10,681	2,013	0,600
	4,500	6,867	52,963	55,427	56,812	33,437	-10,608	1,828	0,597
	4,000	7,367	49,562	51,868	53,164	33,426	-10,526	1,653	0,591
	3,500	7,867	46,174	48,322	49,530	33,412	-10,433	1,489	0,583
	3,000	8,367	42,807	44,798	45,918	33,396	-10,325	1,340	0,571
	2,500	8,867	39,471	41,307	42,339	33,376	-10,201	1,210	0,550
	2,000	9,367	36,191	37,874	38,821	33,353	-10,057	1,103	0,515
	1,500	9,867	33,026	34,562	35,427	33,321	-9,893	1,029	0,442
	1,000	10,367	18,405	19,261	19,742	34,006	-9,765	0,783	47,087
	0,500	10,867	5,077	5,314	5,447	35,087	-9,512	0,467	23,139
	0,224	11,143	1,000	1,047	1,073	35,899	-9,129	0,288	7,261
	0,000	11,367	0,000	0,000	0,000	37,173	-5,335	0,133	0,000

Tank Calibrations - 2AL1E

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



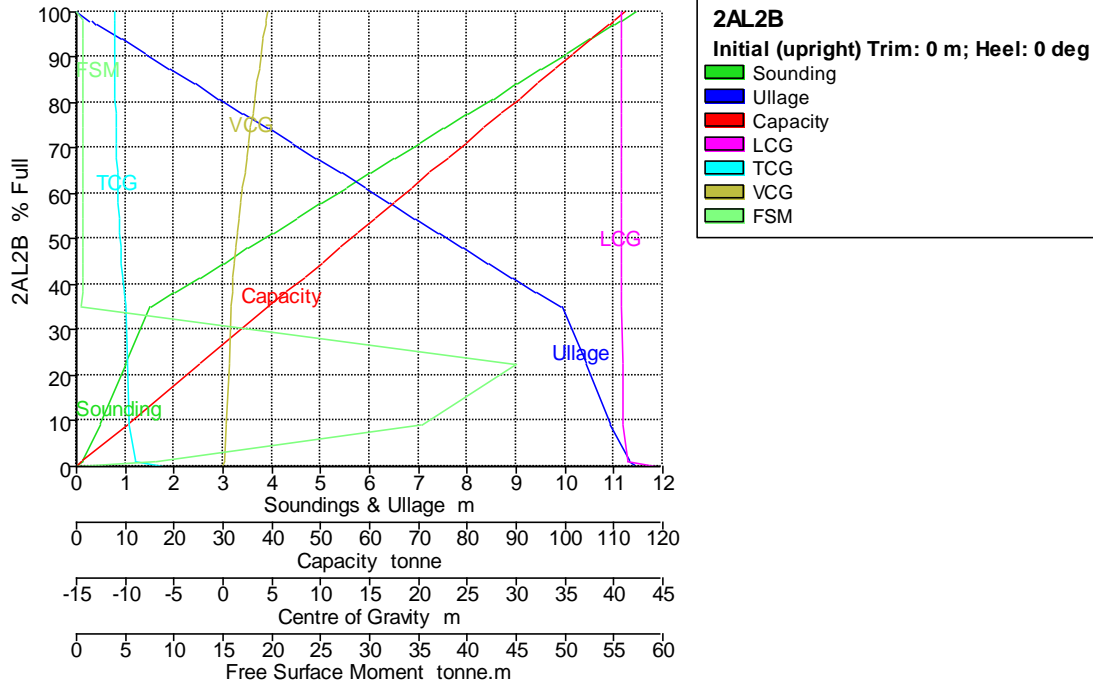
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL1E	11,367	0,000	100,000	104,651	107,268	33,514	11,172	4,764	0,000
	11,076	0,292	98,000	102,558	105,122	33,512	11,159	4,629	0,609
	11,061	0,306	97,900	102,454	105,015	33,512	11,158	4,623	0,609
	11,000	0,367	97,482	102,016	104,567	33,512	11,156	4,595	0,609
	10,500	0,867	94,053	98,428	100,889	33,508	11,132	4,365	0,609
	10,000	1,367	90,624	94,839	97,210	33,505	11,106	4,138	0,609
	9,500	1,867	87,194	91,250	93,531	33,501	11,079	3,912	0,610
	9,000	2,367	83,764	87,660	89,852	33,497	11,049	3,688	0,610
	8,500	2,867	80,334	84,071	86,173	33,493	11,016	3,466	0,609
	8,000	3,367	76,905	80,482	82,494	33,488	10,981	3,247	0,609
	7,500	3,867	73,477	76,894	78,817	33,483	10,943	3,030	0,609
	7,000	4,367	70,050	73,308	75,141	33,477	10,900	2,817	0,607
	6,500	4,867	66,626	69,725	71,469	33,471	10,854	2,609	0,605
	6,000	5,367	63,206	66,145	67,799	33,464	10,802	2,404	0,604
	5,500	5,867	59,787	62,568	64,132	33,456	10,745	2,205	0,603
	5,000	6,367	56,372	58,994	60,469	33,447	10,681	2,013	0,600
	4,500	6,867	52,963	55,427	56,812	33,437	10,608	1,828	0,597
	4,000	7,367	49,562	51,868	53,164	33,426	10,526	1,653	0,591
	3,500	7,867	46,174	48,322	49,530	33,412	10,433	1,489	0,583
	3,000	8,367	42,807	44,798	45,918	33,396	10,325	1,340	0,571
	2,500	8,867	39,471	41,307	42,339	33,376	10,201	1,210	0,550
	2,000	9,367	36,191	37,874	38,821	33,353	10,057	1,103	0,515
	1,500	9,867	33,026	34,562	35,427	33,321	9,893	1,029	0,442
	1,000	10,367	18,405	19,261	19,742	34,006	9,765	0,783	47,087
	0,500	10,867	5,077	5,314	5,447	35,087	9,512	0,467	23,139
	0,224	11,143	1,000	1,047	1,073	35,899	9,129	0,288	7,261
	0,000	11,367	0,000	0,000	0,000	37,173	5,335	0,133	0,000

Tank Calibrations - 2AL2B

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = 0 m (+ve by stern); Heel = 0 deg

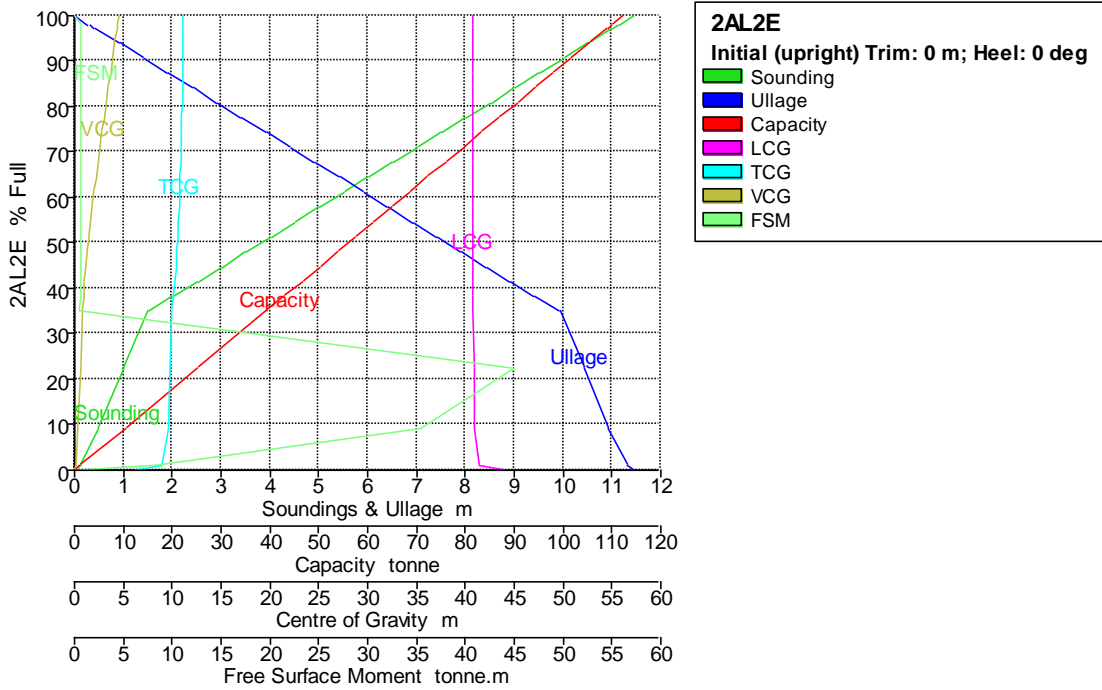


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL2B	11,435	0,000	100,000	109,360	112,094	40,811	-11,162	4,554	0,000
	11,129	0,306	98,000	107,173	109,852	40,811	-11,149	4,416	0,605
	11,114	0,321	97,900	107,063	109,740	40,811	-11,148	4,409	0,605
	11,000	0,435	97,153	106,247	108,903	40,812	-11,143	4,357	0,605
	10,500	0,935	93,880	102,667	105,234	40,812	-11,120	4,132	0,605
	10,000	1,435	90,606	99,086	101,564	40,812	-11,095	3,908	0,605
	9,500	1,935	87,331	95,506	97,893	40,813	-11,068	3,687	0,605
	9,000	2,435	84,056	91,924	94,222	40,814	-11,040	3,468	0,606
	8,500	2,935	80,781	88,342	90,550	40,814	-11,008	3,251	0,606
	8,000	3,435	77,505	84,759	86,878	40,815	-10,975	3,037	0,607
	7,500	3,935	74,227	81,175	83,204	40,816	-10,938	2,826	0,607
	7,000	4,435	70,949	77,590	79,530	40,816	-10,898	2,618	0,608
	6,500	4,935	67,669	74,002	75,853	40,817	-10,854	2,415	0,609
	6,000	5,435	64,388	70,414	72,175	40,818	-10,805	2,216	0,609
	5,500	5,935	61,106	66,826	68,497	40,819	-10,751	2,023	0,609
	5,000	6,435	57,825	63,238	64,818	40,820	-10,691	1,836	0,609
	4,500	6,935	54,544	59,650	61,141	40,821	-10,624	1,657	0,609
	4,000	7,435	51,265	56,063	57,465	40,822	-10,549	1,487	0,608
	3,500	7,935	47,988	52,480	53,792	40,823	-10,463	1,328	0,605
	3,000	8,435	44,718	48,904	50,126	40,824	-10,364	1,183	0,600
	2,500	8,935	41,460	45,341	46,475	40,826	-10,251	1,054	0,591
	2,000	9,435	38,227	41,805	42,850	40,827	-10,120	0,948	0,572
	1,500	9,935	35,046	38,327	39,285	40,829	-9,969	0,869	0,531
	1,000	10,435	22,539	24,648	25,264	40,844	-9,858	0,634	45,013
	0,500	10,935	9,171	10,029	10,280	40,897	-9,606	0,366	35,147
	0,128	11,307	1,000	1,094	1,121	41,342	-8,887	0,152	7,933

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,000	11,435	0,000	0,000	0,000	44,332	-5,957	0,065	0,000

Tank Calibrations - 2AL2E

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL2E	11,435	0,000	100,000	109,360	112,094	40,811	11,162	4,554	0,000
	11,129	0,306	98,000	107,173	109,852	40,811	11,149	4,416	0,605
	11,114	0,321	97,900	107,063	109,740	40,811	11,148	4,409	0,605
	11,000	0,435	97,153	106,247	108,903	40,812	11,143	4,357	0,605
	10,500	0,935	93,880	102,667	105,234	40,812	11,120	4,132	0,605
	10,000	1,435	90,606	99,086	101,564	40,812	11,095	3,908	0,605
	9,500	1,935	87,331	95,506	97,893	40,813	11,068	3,687	0,605
	9,000	2,435	84,056	91,924	94,222	40,814	11,040	3,468	0,606
	8,500	2,935	80,781	88,342	90,550	40,814	11,008	3,251	0,606
	8,000	3,435	77,505	84,759	86,878	40,815	10,975	3,037	0,607
	7,500	3,935	74,227	81,175	83,204	40,816	10,938	2,826	0,607
	7,000	4,435	70,949	77,590	79,530	40,816	10,898	2,618	0,608
	6,500	4,935	67,669	74,002	75,853	40,817	10,854	2,415	0,609
	6,000	5,435	64,388	70,414	72,175	40,818	10,805	2,216	0,609
	5,500	5,935	61,106	66,826	68,497	40,819	10,751	2,023	0,609
	5,000	6,435	57,825	63,238	64,818	40,820	10,691	1,836	0,609
	4,500	6,935	54,544	59,650	61,141	40,821	10,624	1,657	0,609
	4,000	7,435	51,265	56,063	57,465	40,822	10,549	1,487	0,608
	3,500	7,935	47,988	52,480	53,792	40,823	10,463	1,328	0,605
	3,000	8,435	44,718	48,904	50,126	40,824	10,364	1,183	0,600
	2,500	8,935	41,460	45,341	46,475	40,826	10,251	1,054	0,591

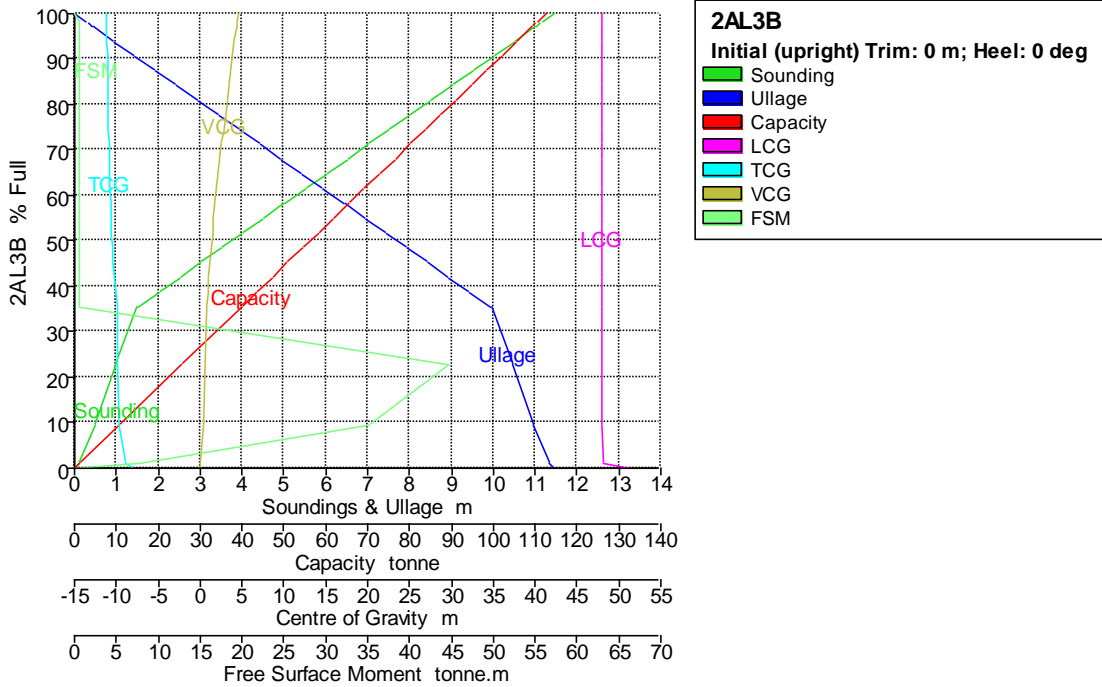
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	2,000	9,435	38,227	41,805	42,850	40,827	10,120	0,948	0,572
	1,500	9,935	35,046	38,327	39,285	40,829	9,969	0,869	0,531
	1,000	10,435	22,539	24,648	25,264	40,844	9,858	0,634	45,013
	0,500	10,935	9,171	10,029	10,280	40,897	9,606	0,366	35,147
	0,128	11,307	1,000	1,094	1,121	41,342	8,887	0,152	7,933
	0,000	11,435	0,000	0,000	0,000	44,332	5,957	0,065	0,000

Tank Calibrations - 2AL3B

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = 0 m (+ve by stern); Heel = 0 deg

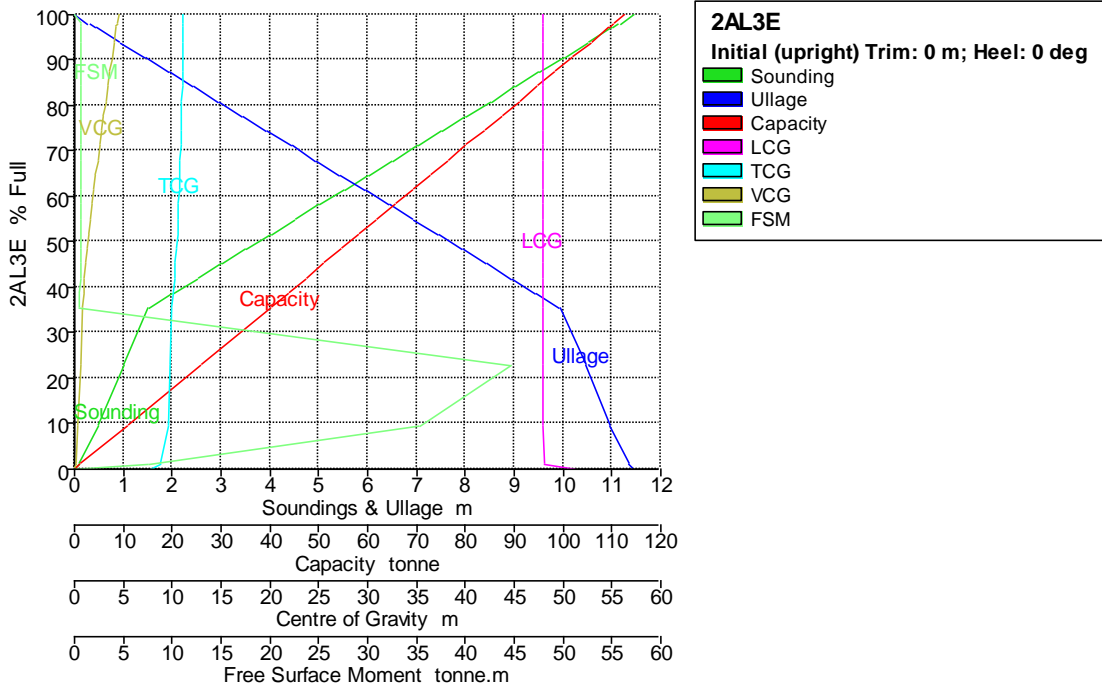


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL3B	11,451	0,000	100,000	109,720	112,463	47,990	-11,146	4,512	0,000
	11,143	0,309	98,000	107,525	110,213	47,990	-11,133	4,373	0,592
	11,127	0,324	97,900	107,415	110,101	47,990	-11,132	4,366	0,592
	11,000	0,451	97,075	106,510	109,173	47,990	-11,126	4,308	0,592
	10,500	0,951	93,835	102,955	105,529	47,990	-11,103	4,084	0,593
	10,000	1,451	90,594	99,399	101,884	47,990	-11,078	3,862	0,593
	9,500	1,951	87,353	95,843	98,239	47,990	-11,051	3,642	0,593
	9,000	2,451	84,111	92,286	94,593	47,990	-11,022	3,424	0,593
	8,500	2,951	80,869	88,729	90,947	47,990	-10,991	3,208	0,594
	8,000	3,451	77,626	85,170	87,300	47,990	-10,957	2,995	0,594
	7,500	3,951	74,381	81,611	83,651	47,990	-10,920	2,786	0,595
	7,000	4,451	71,135	78,049	80,000	47,990	-10,879	2,580	0,596
	6,500	4,951	67,886	74,485	76,347	47,990	-10,835	2,378	0,598
	6,000	5,451	64,637	70,919	72,692	47,990	-10,786	2,181	0,598
	5,500	5,951	61,387	67,354	69,037	47,991	-10,733	1,990	0,598
	5,000	6,451	58,137	63,788	65,383	47,991	-10,673	1,805	0,598

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	4,500	6,951	54,888	60,223	61,728	47,991	-10,606	1,627	0,597
	4,000	7,451	51,640	56,659	58,075	47,992	-10,530	1,459	0,596
	3,500	7,951	48,395	53,098	54,426	47,993	-10,445	1,302	0,594
	3,000	8,451	45,156	49,544	50,783	47,994	-10,348	1,159	0,589
	2,500	8,951	41,929	46,004	47,154	47,995	-10,236	1,033	0,580
	2,000	9,451	38,728	42,492	43,554	47,996	-10,107	0,928	0,561
	1,500	9,951	35,583	39,042	40,018	47,998	-9,958	0,851	0,517
	1,000	10,451	22,793	25,008	25,633	48,001	-9,851	0,610	44,645
	0,500	10,951	9,495	10,418	10,678	48,011	-9,605	0,342	35,146
	0,112	11,340	1,000	1,097	1,125	48,117	-8,860	0,120	7,553
	0,000	11,451	0,000	0,000	0,000	51,409	-7,683	0,049	0,000

Tank Calibrations - 2AL3E

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg

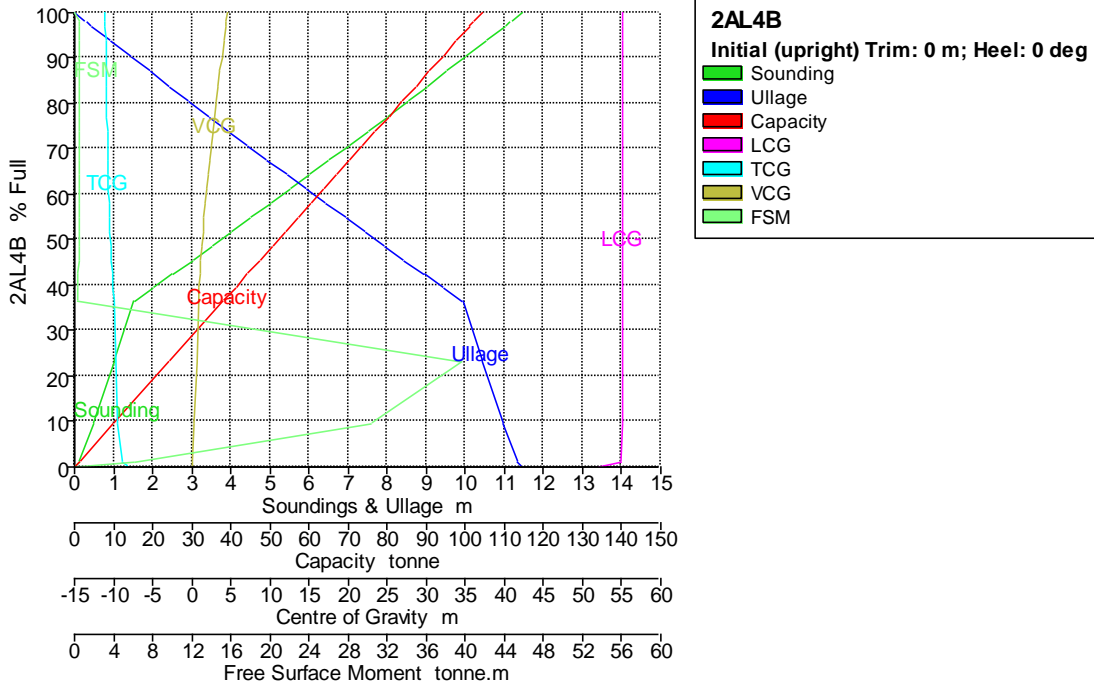


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL3E	11,451	0,000	100,000	109,720	112,463	47,990	11,146	4,512	0,000
	11,143	0,309	98,000	107,525	110,213	47,990	11,133	4,373	0,592
	11,127	0,324	97,900	107,415	110,101	47,990	11,132	4,366	0,592
	11,000	0,451	97,075	106,510	109,173	47,990	11,126	4,308	0,592
	10,500	0,951	93,835	102,955	105,529	47,990	11,103	4,084	0,593
	10,000	1,451	90,594	99,399	101,884	47,990	11,078	3,862	0,593
	9,500	1,951	87,353	95,843	98,239	47,990	11,051	3,642	0,593
	9,000	2,451	84,111	92,286	94,593	47,990	11,022	3,424	0,593
	8,500	2,951	80,869	88,729	90,947	47,990	10,991	3,208	0,594
	8,000	3,451	77,626	85,170	87,300	47,990	10,957	2,995	0,594
	7,500	3,951	74,381	81,611	83,651	47,990	10,920	2,786	0,595

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	7,000	4,451	71,135	78,049	80,000	47,990	10,879	2,580	0,596
	6,500	4,951	67,886	74,485	76,347	47,990	10,835	2,378	0,598
	6,000	5,451	64,637	70,919	72,692	47,990	10,786	2,181	0,598
	5,500	5,951	61,387	67,354	69,037	47,991	10,733	1,990	0,598
	5,000	6,451	58,137	63,788	65,383	47,991	10,673	1,805	0,598
	4,500	6,951	54,888	60,223	61,728	47,991	10,606	1,627	0,597
	4,000	7,451	51,640	56,659	58,075	47,992	10,530	1,459	0,596
	3,500	7,951	48,395	53,098	54,426	47,993	10,445	1,302	0,594
	3,000	8,451	45,156	49,544	50,783	47,994	10,348	1,159	0,589
	2,500	8,951	41,929	46,004	47,154	47,995	10,236	1,033	0,580
	2,000	9,451	38,728	42,492	43,554	47,996	10,107	0,928	0,561
	1,500	9,951	35,583	39,042	40,018	47,998	9,958	0,851	0,517
	1,000	10,451	22,793	25,008	25,633	48,001	9,851	0,610	44,645
	0,500	10,951	9,495	10,418	10,678	48,011	9,605	0,342	35,146
	0,112	11,340	1,000	1,097	1,125	48,117	8,860	0,120	7,553
	0,000	11,451	0,000	0,000	0,000	51,409	7,683	0,049	0,000

Tank Calibrations - 2AL4B

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL4B	11,451	0,000	100,000	101,645	104,187	55,101	-11,074	4,536	0,000
	11,156	0,295	98,000	99,612	102,103	55,100	-11,060	4,397	0,537
	11,141	0,310	97,900	99,511	101,999	55,100	-11,059	4,390	0,537
	11,000	0,451	96,944	98,539	101,003	55,099	-11,052	4,324	0,536
	10,500	0,951	93,570	95,110	97,487	55,097	-11,025	4,091	0,530
	10,000	1,451	90,208	91,693	93,985	55,095	-10,997	3,859	0,525

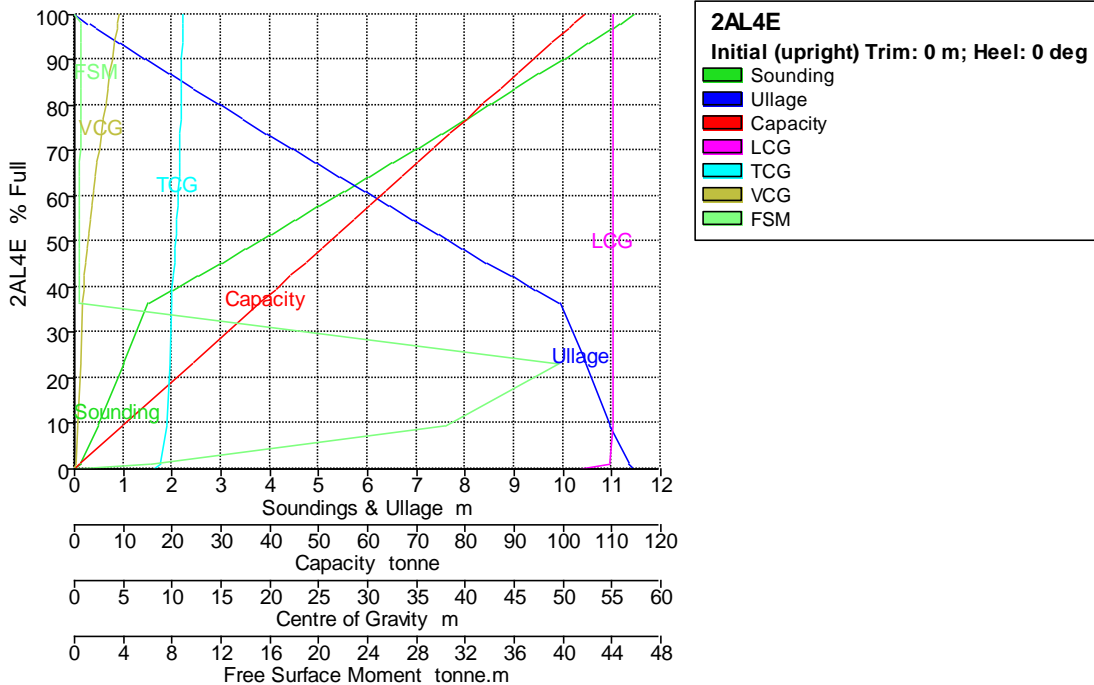
Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	9,500	1,951	86,861	88,290	90,497	55,093	-10,967	3,630	0,518
	9,000	2,451	83,528	84,903	87,025	55,091	-10,934	3,404	0,511
	8,500	2,951	80,214	81,533	83,572	55,089	-10,899	3,181	0,503
	8,000	3,451	76,919	78,185	80,140	55,087	-10,862	2,962	0,494
	7,500	3,951	73,650	74,862	76,733	55,086	-10,822	2,747	0,483
	7,000	4,451	70,412	71,570	73,359	55,086	-10,778	2,538	0,469
	6,500	4,951	67,217	68,323	70,031	55,086	-10,731	2,335	0,455
	6,000	5,451	64,046	65,100	66,727	55,087	-10,680	2,139	0,450
	5,500	5,951	60,889	61,890	63,438	55,088	-10,625	1,949	0,445
	5,000	6,451	57,746	58,696	60,163	55,090	-10,563	1,767	0,440
	4,500	6,951	54,618	55,517	56,905	55,092	-10,495	1,594	0,434
	4,000	7,451	51,507	52,354	53,663	55,095	-10,419	1,430	0,428
	3,500	7,951	48,415	49,211	50,442	55,099	-10,334	1,279	0,421
	3,000	8,451	45,347	46,093	47,245	55,103	-10,239	1,142	0,411
	2,500	8,951	42,312	43,008	44,083	55,110	-10,131	1,023	0,397
	2,000	9,451	39,330	39,977	40,976	55,117	-10,009	0,927	0,374
	1,500	9,951	36,444	37,043	37,970	55,128	-9,874	0,857	0,329
	1,000	10,451	23,201	23,583	24,172	55,115	-9,765	0,616	39,619
	0,500	10,951	9,477	9,633	9,873	55,073	-9,512	0,346	30,318
	0,118	11,334	1,000	1,016	1,042	54,819	-8,791	0,125	6,095
	0,000	11,451	0,000	0,000	0,000	51,755	-7,996	0,049	0,000

Tank Calibrations - 2AL4E

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = 0 m (+ve by stern); Heel = 0 deg

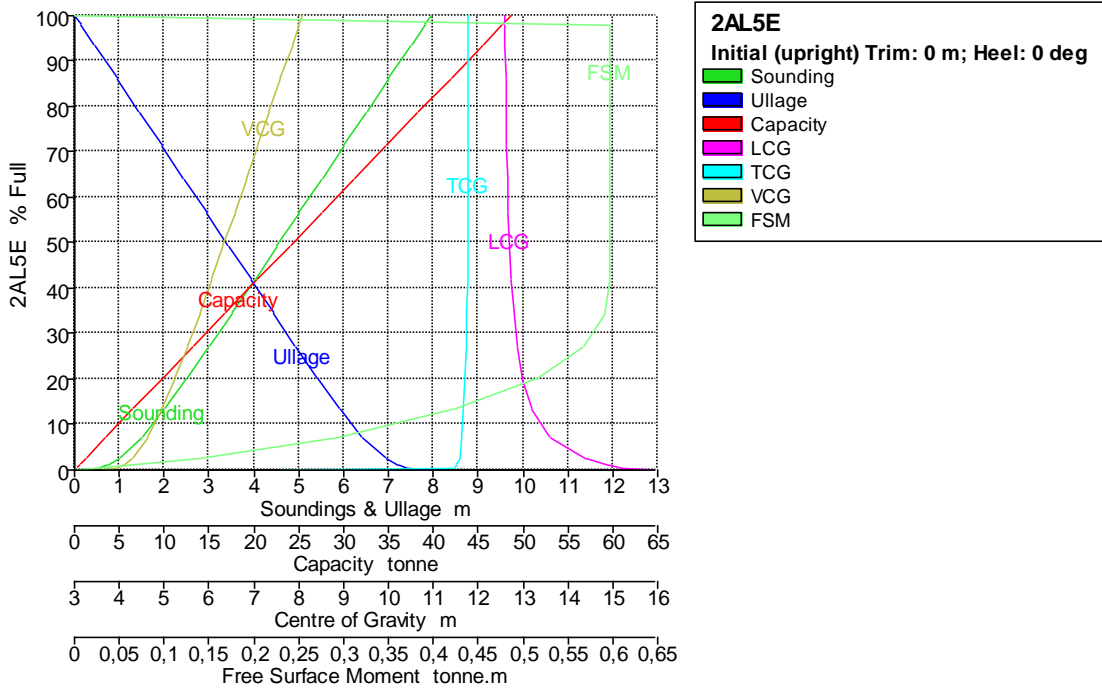


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL4E	11,451	0,000	100,000	101,645	104,187	55,101	11,074	4,536	0,000

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	11,156	0,295	98,000	99,612	102,103	55,100	11,060	4,397	0,537
	11,141	0,310	97,900	99,511	101,999	55,100	11,059	4,390	0,537
	11,000	0,451	96,944	98,539	101,003	55,099	11,052	4,324	0,536
	10,500	0,951	93,570	95,110	97,487	55,097	11,025	4,091	0,530
	10,000	1,451	90,208	91,693	93,985	55,095	10,997	3,859	0,525
	9,500	1,951	86,861	88,290	90,497	55,093	10,967	3,630	0,518
	9,000	2,451	83,528	84,903	87,025	55,091	10,934	3,404	0,511
	8,500	2,951	80,214	81,533	83,572	55,089	10,899	3,181	0,503
	8,000	3,451	76,919	78,185	80,140	55,087	10,862	2,962	0,494
	7,500	3,951	73,650	74,862	76,733	55,086	10,822	2,747	0,483
	7,000	4,451	70,412	71,570	73,359	55,086	10,778	2,538	0,469
	6,500	4,951	67,217	68,323	70,031	55,086	10,731	2,335	0,455
	6,000	5,451	64,046	65,100	66,727	55,087	10,680	2,139	0,450
	5,500	5,951	60,889	61,890	63,438	55,088	10,625	1,949	0,445
	5,000	6,451	57,746	58,696	60,163	55,090	10,563	1,767	0,440
	4,500	6,951	54,618	55,517	56,905	55,092	10,495	1,594	0,434
	4,000	7,451	51,507	52,354	53,663	55,095	10,419	1,430	0,428
	3,500	7,951	48,415	49,211	50,442	55,099	10,334	1,279	0,421
	3,000	8,451	45,347	46,093	47,245	55,103	10,239	1,142	0,411
	2,500	8,951	42,312	43,008	44,083	55,110	10,131	1,023	0,397
	2,000	9,451	39,330	39,977	40,976	55,117	10,009	0,927	0,374
	1,500	9,951	36,444	37,043	37,970	55,128	9,874	0,857	0,329
	1,000	10,451	23,201	23,583	24,172	55,115	9,765	0,616	39,619
	0,500	10,951	9,477	9,633	9,873	55,073	9,512	0,346	30,318
	0,118	11,334	1,000	1,016	1,042	54,819	8,791	0,125	6,095
	0,000	11,451	0,000	0,000	0,000	51,755	7,996	0,049	0,000

Tank Calibrations - 2AL5E

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



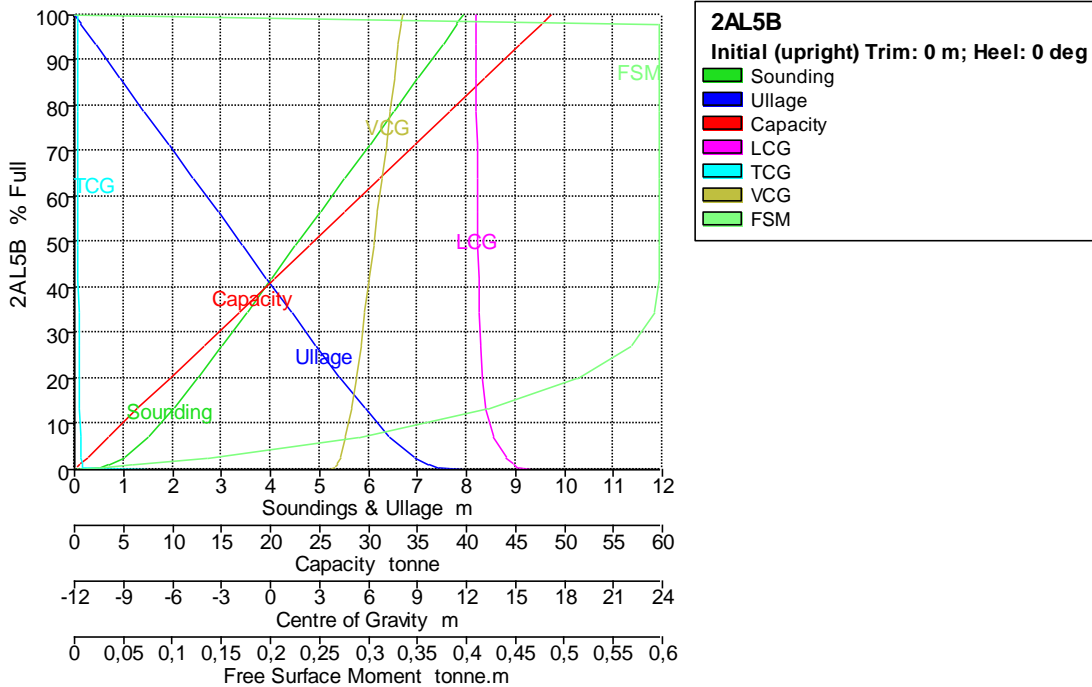
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL5E	7,945	0,000	100,000	47,427	48,613	12,599	11,787	8,078	0,000
	7,810	0,136	98,000	46,479	47,641	12,601	11,787	8,009	0,597
	7,803	0,142	97,900	46,431	47,592	12,601	11,787	8,006	0,597
	7,500	0,445	93,430	44,311	45,419	12,606	11,786	7,853	0,597
	7,000	0,945	86,054	40,813	41,833	12,615	11,784	7,600	0,597
	6,500	1,445	78,677	37,314	38,247	12,626	11,781	7,346	0,597
	6,000	1,945	71,301	33,816	34,661	12,639	11,778	7,092	0,597
	5,500	2,445	63,924	30,317	31,075	12,655	11,775	6,836	0,597
	5,000	2,945	56,547	26,819	27,489	12,675	11,771	6,579	0,597
	4,500	3,445	49,171	23,321	23,904	12,701	11,765	6,321	0,597
	4,000	3,945	41,797	19,823	20,319	12,737	11,757	6,059	0,596
	3,500	4,445	34,427	16,328	16,736	12,787	11,746	5,792	0,592
	3,000	4,945	27,116	12,860	13,182	12,863	11,730	5,519	0,567
	2,500	5,445	19,974	9,473	9,710	12,984	11,708	5,238	0,513
	2,000	5,945	13,183	6,252	6,408	13,196	11,676	4,944	0,421
	1,500	6,445	7,086	3,361	3,445	13,631	11,632	4,628	0,290
	1,000	6,945	2,568	1,218	1,248	14,439	11,579	4,279	0,136
	0,696	7,249	1,000	0,474	0,486	14,941	11,534	4,063	0,059
	0,500	7,445	0,412	0,195	0,200	15,253	11,494	3,921	0,025
	0,000	7,945	0,000	0,000	0,000	15,982	7,540	3,555	0,000

Tank Calibrations - 2AL5B

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = 0 m (+ve by stern); Heel = 0 deg

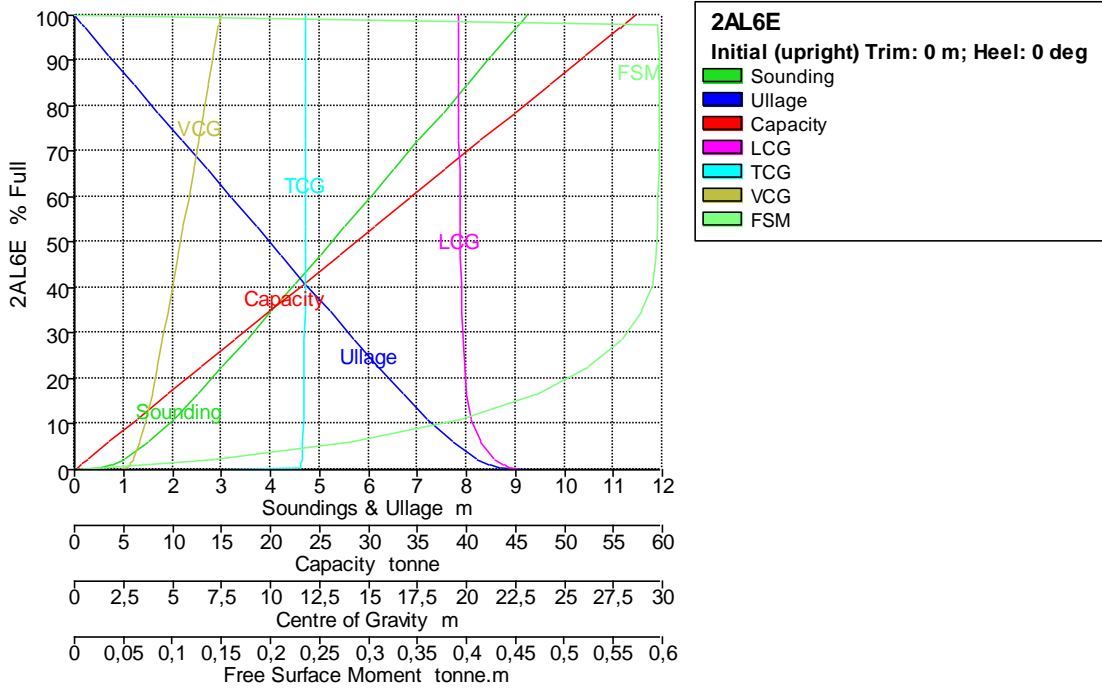


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL5B	7,945	0,000	100,000	47,427	48,613	12,599	-11,787	8,078	0,000

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	7,810	0,136	98,000	46,479	47,641	12,601	-11,787	8,009	0,597
	7,803	0,142	97,900	46,431	47,592	12,601	-11,787	8,006	0,597
	7,500	0,445	93,430	44,311	45,419	12,606	-11,786	7,853	0,597
	7,000	0,945	86,054	40,813	41,833	12,615	-11,784	7,600	0,597
	6,500	1,445	78,677	37,314	38,247	12,626	-11,781	7,346	0,597
	6,000	1,945	71,301	33,816	34,661	12,639	-11,778	7,092	0,597
	5,500	2,445	63,924	30,317	31,075	12,655	-11,775	6,836	0,597
	5,000	2,945	56,547	26,819	27,489	12,675	-11,771	6,579	0,597
	4,500	3,445	49,171	23,321	23,904	12,701	-11,765	6,321	0,597
	4,000	3,945	41,797	19,823	20,319	12,737	-11,757	6,059	0,596
	3,500	4,445	34,427	16,328	16,736	12,787	-11,746	5,792	0,592
	3,000	4,945	27,116	12,860	13,182	12,863	-11,730	5,519	0,567
	2,500	5,445	19,974	9,473	9,710	12,984	-11,708	5,238	0,513
	2,000	5,945	13,183	6,252	6,408	13,196	-11,676	4,944	0,421
	1,500	6,445	7,086	3,361	3,445	13,631	-11,632	4,628	0,290
	1,000	6,945	2,568	1,218	1,248	14,439	-11,579	4,279	0,136
	0,696	7,249	1,000	0,474	0,486	14,941	-11,534	4,063	0,059
	0,500	7,445	0,412	0,195	0,200	15,253	-11,494	3,921	0,025
	0,000	7,945	0,000	0,000	0,000	15,982	-7,540	3,555	0,000

Tank Calibrations - 2AL6E

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL6E	9,227	0,000	100,000	55,877	57,274	19,593	11,787	7,464	0,000
	9,067	0,160	98,000	54,759	56,128	19,594	11,787	7,384	0,596
	9,059	0,168	97,900	54,704	56,071	19,594	11,787	7,380	0,596

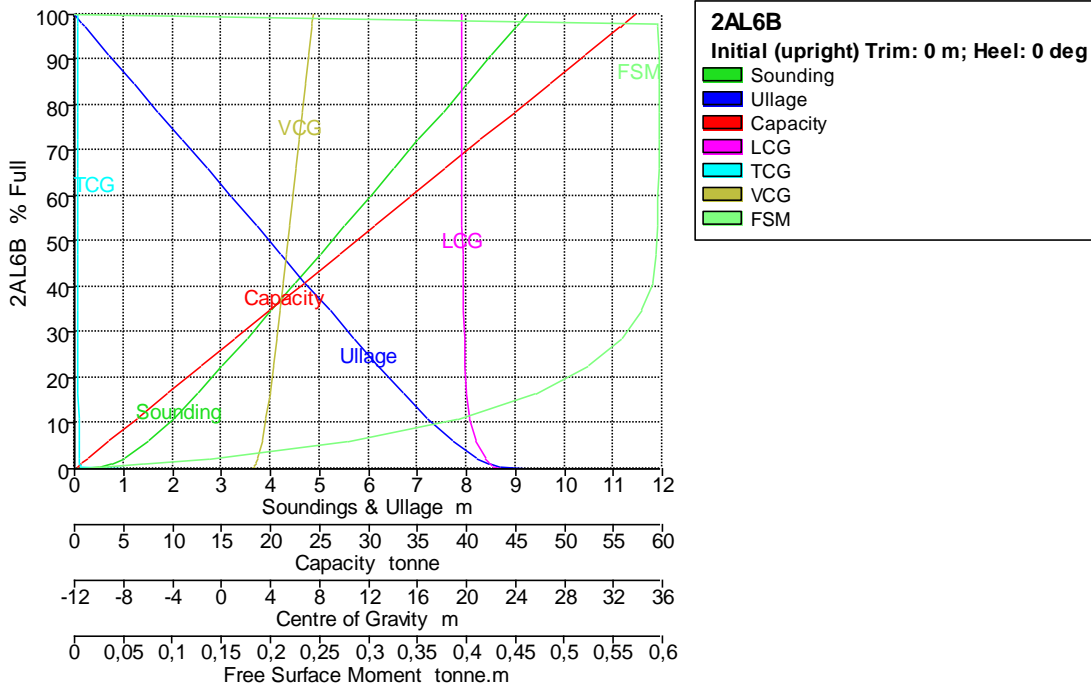
Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	9,000	0,227	97,163	54,292	55,649	19,595	11,787	7,350	0,596
	8,500	0,727	90,906	50,796	52,066	19,602	11,785	7,097	0,596
	8,000	1,227	84,649	47,299	48,482	19,609	11,783	6,844	0,596
	7,500	1,727	78,391	43,803	44,898	19,618	11,781	6,590	0,596
	7,000	2,227	72,134	40,306	41,314	19,628	11,779	6,335	0,596
	6,500	2,727	65,876	36,810	37,730	19,641	11,776	6,080	0,596
	6,000	3,227	59,620	33,314	34,146	19,655	11,773	5,824	0,596
	5,500	3,727	53,364	29,818	30,564	19,674	11,769	5,566	0,595
	5,000	4,227	47,111	26,324	26,982	19,697	11,764	5,306	0,594
	4,500	4,727	40,865	22,834	23,405	19,727	11,757	5,044	0,590
	4,000	5,227	34,646	19,359	19,843	19,767	11,748	4,778	0,579
	3,500	5,727	28,483	15,916	16,313	19,823	11,737	4,508	0,558
	3,000	6,227	22,423	12,529	12,843	19,905	11,722	4,234	0,523
	2,500	6,727	16,535	9,239	9,470	20,033	11,701	3,952	0,470
	2,000	7,227	10,938	6,112	6,264	20,258	11,672	3,659	0,390
	1,500	7,727	5,896	3,294	3,377	20,717	11,633	3,341	0,279
	1,000	8,227	2,177	1,217	1,247	21,499	11,586	2,993	0,136
	0,737	8,490	1,000	0,559	0,573	21,911	11,549	2,807	0,071
	0,500	8,727	0,364	0,203	0,208	22,272	11,504	2,638	0,027
	0,000	9,227	0,000	0,000	0,000	22,932	7,540	2,273	0,000

Tank Calibrations - 2AL6B

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = 0 m (+ve by stern); Heel = 0 deg

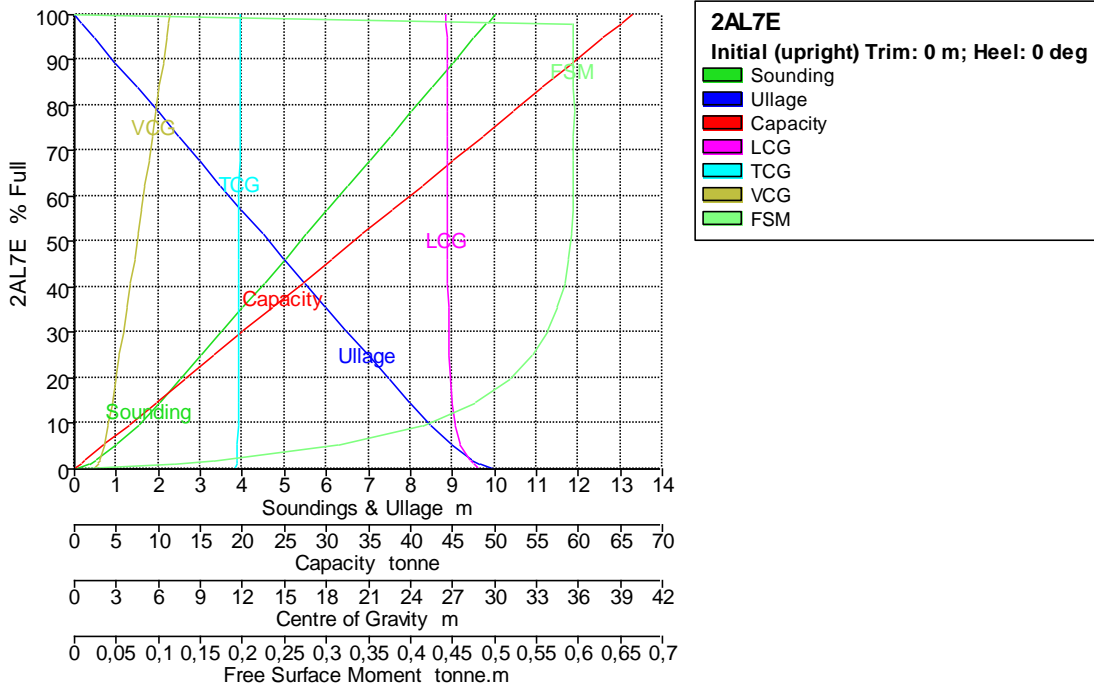


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL6B	9,227	0,000	100,000	55,877	57,274	19,593	-11,787	7,464	0,000
	9,067	0,160	98,000	54,759	56,128	19,594	-11,787	7,384	0,596

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	9,059	0,168	97,900	54,704	56,071	19,594	-11,787	7,380	0,596
	9,000	0,227	97,163	54,292	55,649	19,595	-11,787	7,350	0,596
	8,500	0,727	90,906	50,796	52,066	19,602	-11,785	7,097	0,596
	8,000	1,227	84,649	47,299	48,482	19,609	-11,783	6,844	0,596
	7,500	1,727	78,391	43,803	44,898	19,618	-11,781	6,590	0,596
	7,000	2,227	72,134	40,306	41,314	19,628	-11,779	6,335	0,596
	6,500	2,727	65,876	36,810	37,730	19,641	-11,776	6,080	0,596
	6,000	3,227	59,620	33,314	34,146	19,655	-11,773	5,824	0,596
	5,500	3,727	53,364	29,818	30,564	19,674	-11,769	5,566	0,595
	5,000	4,227	47,111	26,324	26,982	19,697	-11,764	5,306	0,594
	4,500	4,727	40,865	22,834	23,405	19,727	-11,757	5,044	0,590
	4,000	5,227	34,646	19,359	19,843	19,767	-11,748	4,778	0,579
	3,500	5,727	28,483	15,916	16,313	19,823	-11,737	4,508	0,558
	3,000	6,227	22,423	12,529	12,843	19,905	-11,722	4,234	0,523
	2,500	6,727	16,535	9,239	9,470	20,033	-11,701	3,952	0,470
	2,000	7,227	10,938	6,112	6,264	20,258	-11,672	3,659	0,390
	1,500	7,727	5,896	3,294	3,377	20,717	-11,633	3,341	0,279
	1,000	8,227	2,177	1,217	1,247	21,499	-11,586	2,993	0,136
	0,737	8,490	1,000	0,559	0,573	21,911	-11,549	2,807	0,071
	0,500	8,727	0,364	0,203	0,208	22,272	-11,504	2,638	0,027
	0,000	9,227	0,000	0,000	0,000	22,932	-7,540	2,273	0,000

Tank Calibrations - 2AL7E

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg

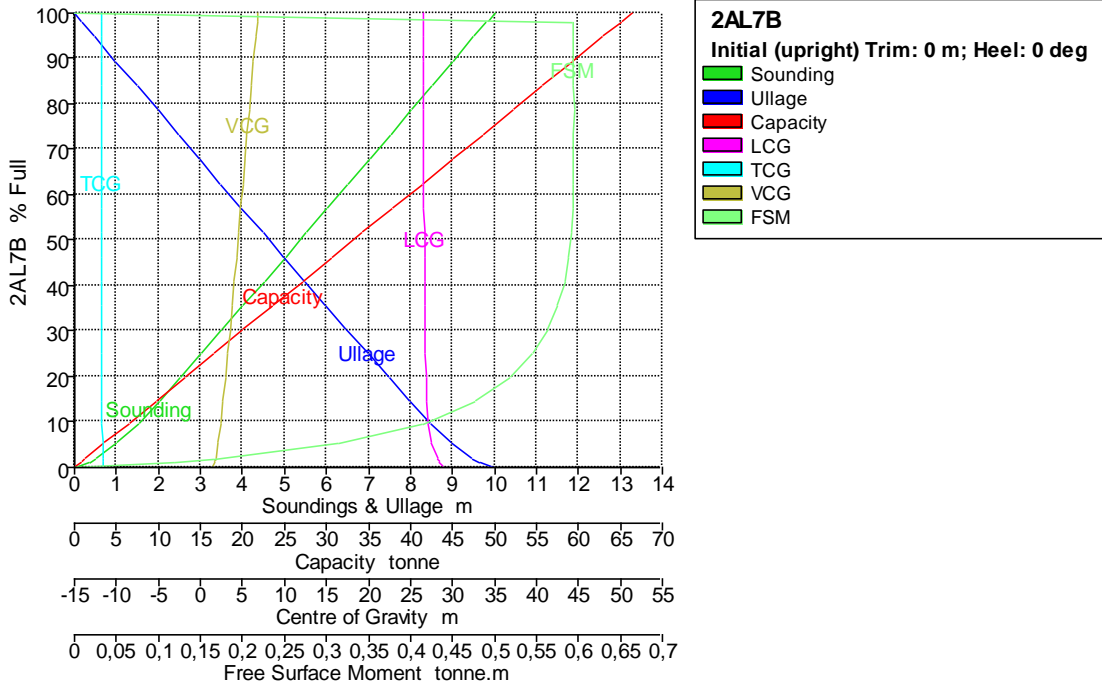


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL7E	10,000	0,000	100,000	64,785	66,405	26,574	11,791	6,826	0,000

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	9,815	0,185	98,000	63,490	65,077	26,576	11,791	6,733	0,594
	9,805	0,195	97,900	63,425	65,010	26,576	11,790	6,728	0,594
	9,500	0,500	94,609	61,293	62,825	26,578	11,790	6,574	0,594
	9,000	1,000	89,217	57,799	59,244	26,583	11,789	6,322	0,595
	8,500	1,500	83,824	54,306	55,663	26,588	11,788	6,069	0,595
	8,000	2,000	78,431	50,812	52,082	26,595	11,786	5,816	0,595
	7,500	2,500	73,039	47,318	48,501	26,602	11,785	5,562	0,595
	7,000	3,000	67,646	43,825	44,920	26,610	11,783	5,308	0,594
	6,500	3,500	62,255	40,332	41,340	26,619	11,780	5,053	0,594
	6,000	4,000	56,866	36,840	37,761	26,631	11,778	4,798	0,593
	5,500	4,500	51,480	33,352	34,185	26,644	11,775	4,541	0,591
	5,000	5,000	46,103	29,868	30,615	26,661	11,771	4,284	0,588
	4,500	5,500	40,736	26,391	27,051	26,682	11,766	4,025	0,583
	4,000	6,000	35,389	22,927	23,500	26,709	11,761	3,764	0,576
	3,500	6,500	30,073	19,483	19,970	26,745	11,754	3,501	0,563
	3,000	7,000	24,805	16,070	16,472	26,794	11,745	3,236	0,545
	2,500	7,500	19,611	12,705	13,022	26,864	11,733	2,967	0,518
	2,000	8,000	14,532	9,414	9,650	26,975	11,716	2,693	0,477
	1,500	8,500	9,646	6,249	6,406	27,170	11,693	2,410	0,414
	1,000	9,000	5,156	3,341	3,424	27,575	11,661	2,109	0,314
	0,500	9,500	1,730	1,121	1,149	28,293	11,623	1,790	0,166
	0,341	9,659	1,000	0,648	0,664	28,519	11,608	1,692	0,118
	0,000	10,000	0,000	0,000	0,000	28,959	11,549	1,500	0,000

Tank Calibrations - 2AL7B

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



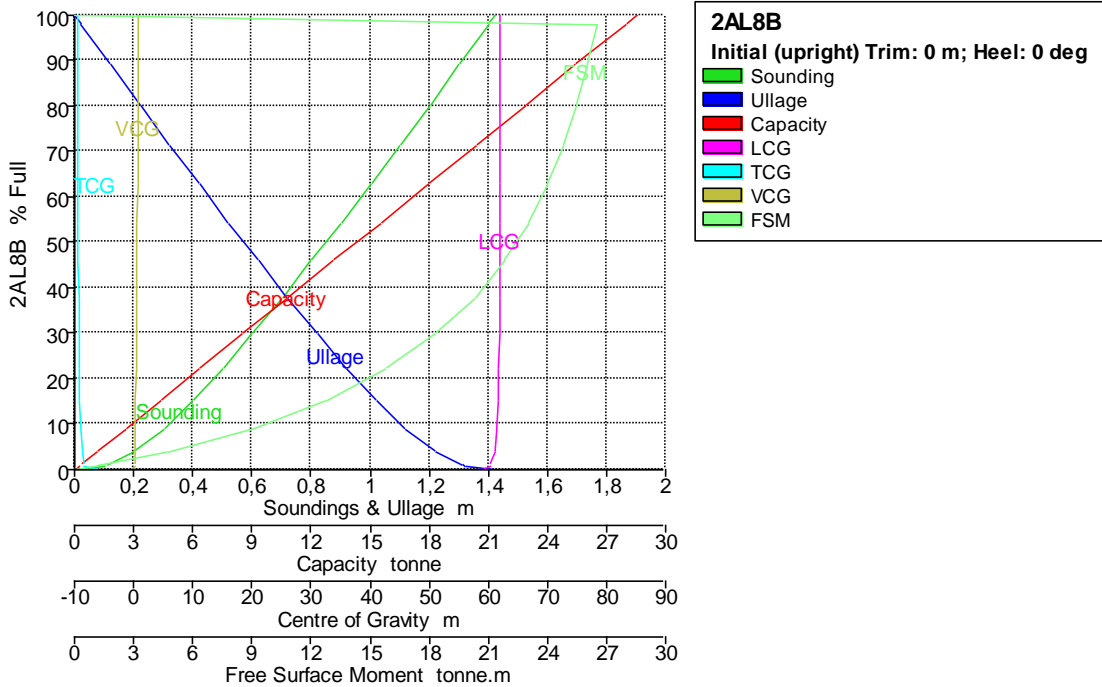
Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL7B	10,000	0,000	100,000	64,785	66,405	26,574	-11,791	6,826	0,000
	9,815	0,185	98,000	63,490	65,077	26,576	-11,791	6,733	0,594
	9,805	0,195	97,900	63,425	65,010	26,576	-11,790	6,728	0,594
	9,500	0,500	94,609	61,293	62,825	26,578	-11,790	6,574	0,594
	9,000	1,000	89,217	57,799	59,244	26,583	-11,789	6,322	0,595
	8,500	1,500	83,824	54,306	55,663	26,588	-11,788	6,069	0,595
	8,000	2,000	78,431	50,812	52,082	26,595	-11,786	5,816	0,595
	7,500	2,500	73,039	47,318	48,501	26,602	-11,785	5,562	0,595
	7,000	3,000	67,646	43,825	44,920	26,610	-11,783	5,308	0,594
	6,500	3,500	62,255	40,332	41,340	26,619	-11,780	5,053	0,594
	6,000	4,000	56,866	36,840	37,761	26,631	-11,778	4,798	0,593
	5,500	4,500	51,480	33,352	34,185	26,644	-11,775	4,541	0,591
	5,000	5,000	46,103	29,868	30,615	26,661	-11,771	4,284	0,588
	4,500	5,500	40,736	26,391	27,051	26,682	-11,766	4,025	0,583
	4,000	6,000	35,389	22,927	23,500	26,709	-11,761	3,764	0,576
	3,500	6,500	30,073	19,483	19,970	26,745	-11,754	3,501	0,563
	3,000	7,000	24,805	16,070	16,472	26,794	-11,745	3,236	0,545
	2,500	7,500	19,611	12,705	13,022	26,864	-11,733	2,967	0,518
	2,000	8,000	14,532	9,414	9,650	26,975	-11,716	2,693	0,477
	1,500	8,500	9,646	6,249	6,406	27,170	-11,693	2,410	0,414
	1,000	9,000	5,156	3,341	3,424	27,575	-11,661	2,109	0,314
	0,500	9,500	1,730	1,121	1,149	28,293	-11,623	1,790	0,166
	0,341	9,659	1,000	0,648	0,664	28,519	-11,608	1,692	0,118
	0,000	10,000	0,000	0,000	0,000	28,959	-11,549	1,500	0,000

Tank Calibrations - 2AL8B

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

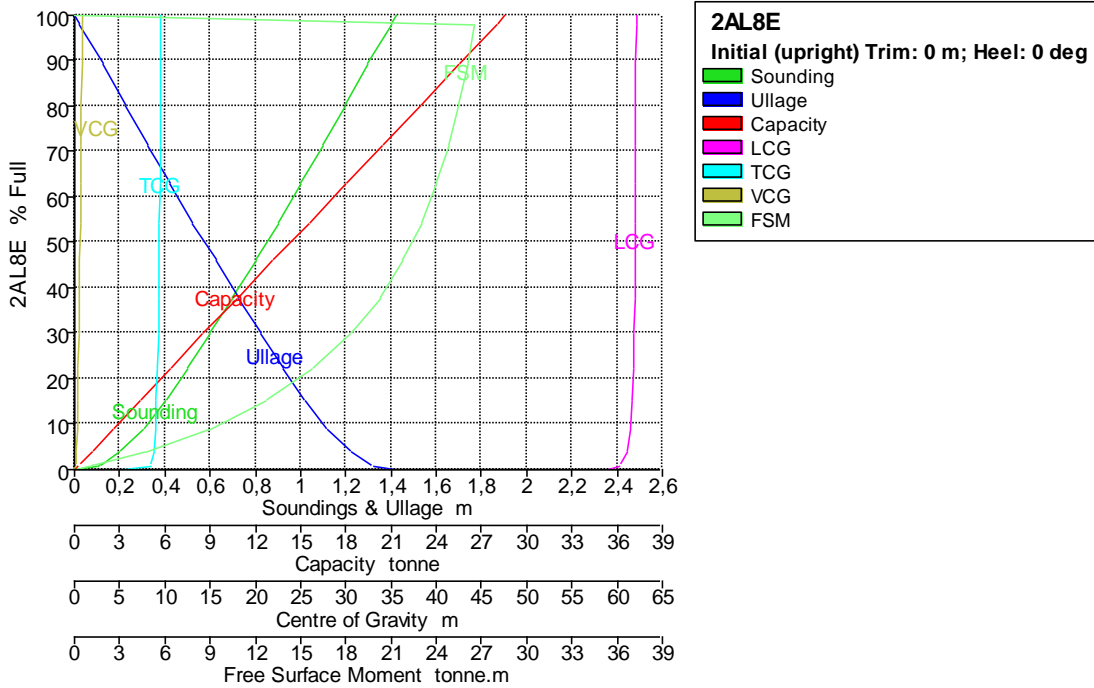
Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL8B	1,424	0,000	100,000	27,880	28,577	62,096	-9,546	0,907	0,000
	1,401	0,022	98,000	27,323	28,006	62,094	-9,542	0,895	26,567
	1,400	0,024	97,900	27,295	27,977	62,094	-9,542	0,894	26,561
	1,400	0,024	97,875	27,288	27,970	62,094	-9,542	0,894	26,560
	1,300	0,124	88,979	24,808	25,428	62,082	-9,523	0,841	26,062
	1,200	0,224	80,148	22,346	22,904	62,067	-9,501	0,787	25,489
	1,100	0,324	71,397	19,906	20,403	62,050	-9,475	0,734	24,821
	1,000	0,424	62,740	17,492	17,929	62,029	-9,445	0,679	24,022
	0,900	0,524	54,202	15,112	15,489	62,004	-9,410	0,625	23,042
	0,800	0,624	45,815	12,773	13,093	61,971	-9,367	0,569	21,819
	0,700	0,724	37,629	10,491	10,753	61,929	-9,315	0,514	20,272
	0,600	0,824	29,713	8,284	8,491	61,872	-9,251	0,457	18,303
	0,500	0,924	22,170	6,181	6,336	61,792	-9,169	0,399	15,800
	0,400	1,024	15,161	4,227	4,333	61,671	-9,064	0,340	12,664
	0,300	1,124	8,938	2,492	2,554	61,468	-8,926	0,279	8,884
	0,200	1,224	3,921	1,093	1,121	61,080	-8,743	0,215	4,692
	0,110	1,314	1,000	0,279	0,286	60,417	-8,514	0,154	1,254
	0,100	1,324	0,805	0,224	0,230	60,327	-8,483	0,148	0,998
	0,000	1,424	0,000	0,000	0,000	58,838	-5,335	0,076	0,000

Tank Calibrations - 2AL8E

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg

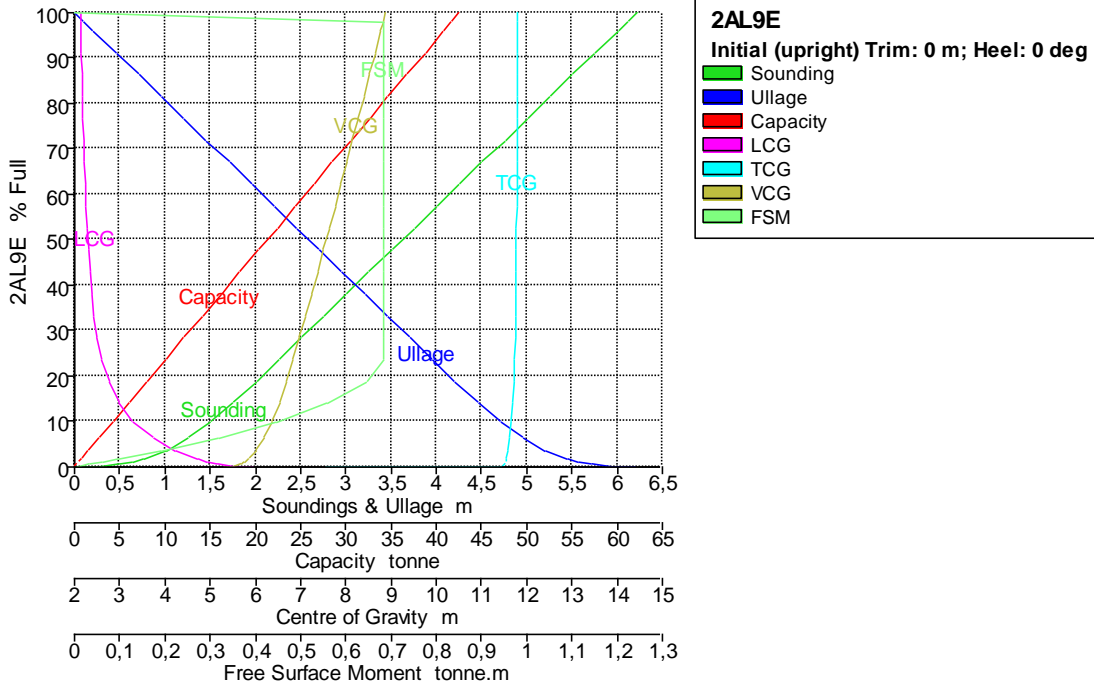


Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL8E	1,424	0,000	100,000	27,880	28,577	62,096	9,546	0,907	0,000
	1,401	0,022	98,000	27,323	28,006	62,094	9,542	0,895	26,567
	1,400	0,024	97,900	27,295	27,977	62,094	9,542	0,894	26,561

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	1,400	0,024	97,875	27,288	27,970	62,094	9,542	0,894	26,560
	1,300	0,124	88,979	24,808	25,428	62,082	9,523	0,841	26,062
	1,200	0,224	80,148	22,346	22,904	62,067	9,501	0,787	25,489
	1,100	0,324	71,397	19,906	20,403	62,050	9,475	0,734	24,821
	1,000	0,424	62,740	17,492	17,929	62,029	9,445	0,679	24,022
	0,900	0,524	54,202	15,112	15,489	62,004	9,410	0,625	23,042
	0,800	0,624	45,815	12,773	13,093	61,971	9,367	0,569	21,819
	0,700	0,724	37,629	10,491	10,753	61,929	9,315	0,514	20,272
	0,600	0,824	29,713	8,284	8,491	61,872	9,251	0,457	18,303
	0,500	0,924	22,170	6,181	6,336	61,792	9,169	0,399	15,800
	0,400	1,024	15,161	4,227	4,333	61,671	9,064	0,340	12,664
	0,300	1,124	8,938	2,492	2,554	61,468	8,926	0,279	8,884
	0,200	1,224	3,921	1,093	1,121	61,080	8,743	0,215	4,692
	0,110	1,314	1,000	0,279	0,286	60,417	8,514	0,154	1,254
	0,100	1,324	0,805	0,224	0,230	60,327	8,483	0,148	0,998
	0,000	1,424	0,000	0,000	0,000	58,838	5,335	0,076	0,000

Tank Calibrations - 2AL9E

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg

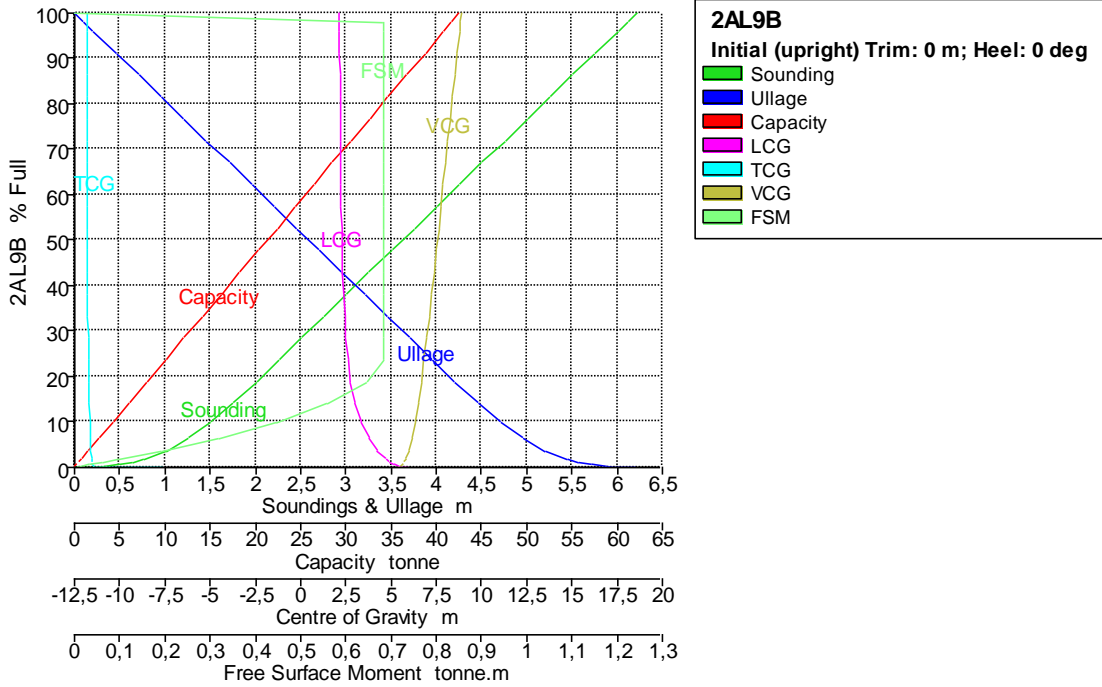


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL9E	6,218	0,000	100,000	41,486	42,523	2,144	11,791	8,885	0,000
	6,114	0,104	98,000	40,656	41,672	2,147	11,791	8,833	0,683
	6,109	0,109	97,900	40,614	41,630	2,147	11,791	8,831	0,683
	6,000	0,218	95,801	39,744	40,737	2,150	11,790	8,776	0,683
	5,750	0,468	90,980	37,744	38,687	2,158	11,789	8,649	0,683
	5,500	0,718	86,159	35,744	36,637	2,167	11,788	8,523	0,683

Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	5,250	0,968	81,338	33,744	34,587	2,177	11,787	8,397	0,683
	5,000	1,218	76,517	31,744	32,537	2,188	11,786	8,270	0,683
	4,750	1,468	71,696	29,744	30,487	2,200	11,784	8,143	0,683
	4,500	1,718	66,875	27,744	28,437	2,215	11,782	8,016	0,683
	4,250	1,968	62,055	25,744	26,387	2,231	11,780	7,888	0,683
	4,000	2,218	57,234	23,744	24,337	2,251	11,778	7,760	0,683
	3,750	2,468	52,413	21,744	22,287	2,274	11,775	7,632	0,683
	3,500	2,718	47,592	19,744	20,237	2,302	11,771	7,503	0,683
	3,250	2,968	42,771	17,744	18,187	2,336	11,767	7,373	0,683
	3,000	3,218	37,950	15,744	16,137	2,379	11,762	7,241	0,683
	2,750	3,468	33,129	13,744	14,087	2,434	11,755	7,108	0,683
	2,500	3,718	28,308	11,744	12,037	2,507	11,746	6,972	0,683
	2,250	3,968	23,488	9,744	9,988	2,612	11,733	6,831	0,682
	2,000	4,218	18,705	7,760	7,954	2,763	11,714	6,684	0,644
	1,750	4,468	14,095	5,847	5,993	2,986	11,690	6,528	0,557
	1,500	4,718	9,839	4,082	4,184	3,315	11,662	6,364	0,442
	1,250	4,968	6,196	2,570	2,635	3,777	11,632	6,188	0,319
	1,000	5,218	3,462	1,436	1,472	4,265	11,599	6,010	0,191
	0,750	5,468	1,617	0,671	0,688	4,731	11,558	5,830	0,095
	0,627	5,591	1,000	0,415	0,425	4,953	11,533	5,742	0,060
	0,500	5,718	0,541	0,224	0,230	5,177	11,502	5,650	0,032
	0,250	5,968	0,079	0,033	0,034	5,600	11,426	5,468	0,004
	0,000	6,218	0,000	0,000	0,000	5,994	7,540	5,282	0,000

Tank Calibrations - 2AL9B

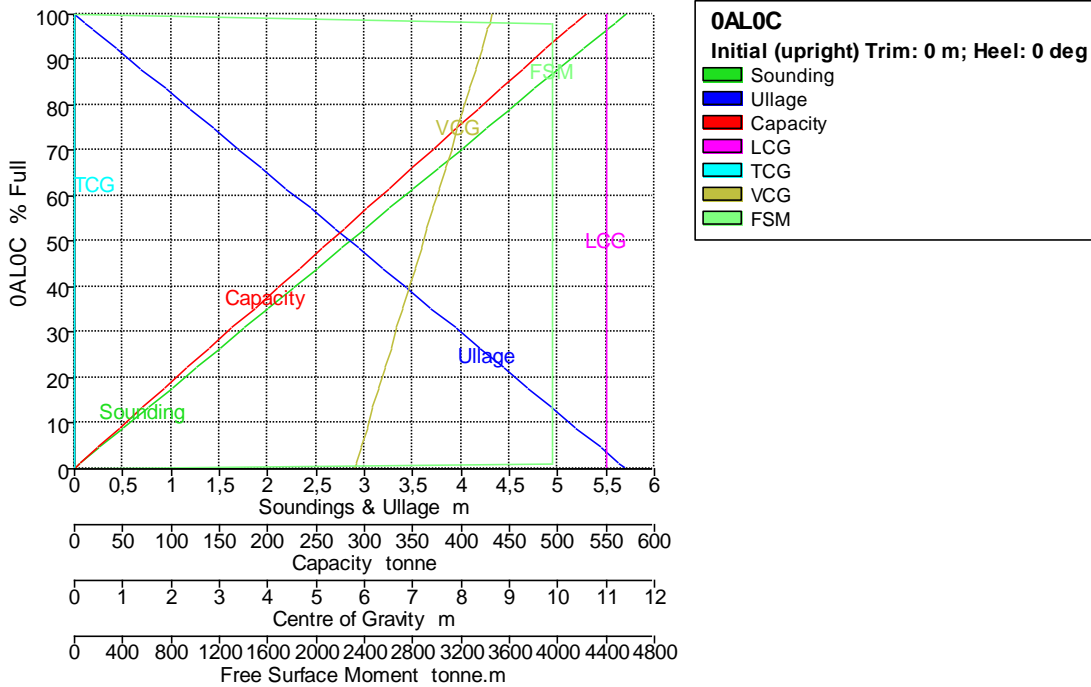
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL9B	6,218	0,000	100,000	41,486	42,523	2,144	-11,791	8,885	0,000
	6,114	0,104	98,000	40,656	41,672	2,147	-11,791	8,833	0,683
	6,109	0,109	97,900	40,614	41,630	2,147	-11,791	8,831	0,683
	6,000	0,218	95,801	39,744	40,737	2,150	-11,790	8,776	0,683
	5,750	0,468	90,980	37,744	38,687	2,158	-11,789	8,649	0,683
	5,500	0,718	86,159	35,744	36,637	2,167	-11,788	8,523	0,683
	5,250	0,968	81,338	33,744	34,587	2,177	-11,787	8,397	0,683
	5,000	1,218	76,517	31,744	32,537	2,188	-11,786	8,270	0,683
	4,750	1,468	71,696	29,744	30,487	2,200	-11,784	8,143	0,683
	4,500	1,718	66,875	27,744	28,437	2,215	-11,782	8,016	0,683
	4,250	1,968	62,055	25,744	26,387	2,231	-11,780	7,888	0,683
	4,000	2,218	57,234	23,744	24,337	2,251	-11,778	7,760	0,683
	3,750	2,468	52,413	21,744	22,287	2,274	-11,775	7,632	0,683
	3,500	2,718	47,592	19,744	20,237	2,302	-11,771	7,503	0,683
	3,250	2,968	42,771	17,744	18,187	2,336	-11,767	7,373	0,683
	3,000	3,218	37,950	15,744	16,137	2,379	-11,762	7,241	0,683
	2,750	3,468	33,129	13,744	14,087	2,434	-11,755	7,108	0,683
	2,500	3,718	28,308	11,744	12,037	2,507	-11,746	6,972	0,683
	2,250	3,968	23,488	9,744	9,988	2,612	-11,733	6,831	0,682
	2,000	4,218	18,705	7,760	7,954	2,763	-11,714	6,684	0,644
	1,750	4,468	14,095	5,847	5,993	2,986	-11,690	6,528	0,557
	1,500	4,718	9,839	4,082	4,184	3,315	-11,662	6,364	0,442
	1,250	4,968	6,196	2,570	2,635	3,777	-11,632	6,188	0,319
	1,000	5,218	3,462	1,436	1,472	4,265	-11,599	6,010	0,191
	0,750	5,468	1,617	0,671	0,688	4,731	-11,558	5,830	0,095
	0,627	5,591	1,000	0,415	0,425	4,953	-11,533	5,742	0,060
	0,500	5,718	0,541	0,224	0,230	5,177	-11,502	5,650	0,032
	0,250	5,968	0,079	0,033	0,034	5,600	-11,426	5,468	0,004
	0,000	6,218	0,000	0,000	0,000	5,994	-7,540	5,282	0,000

Tank Calibrations - 0AL0C

Fluid Type = Agua Lastre Specific gravity = 1,025
Permeability = 100 %
Trim = 0 m (+ve by stern); Heel = 0 deg

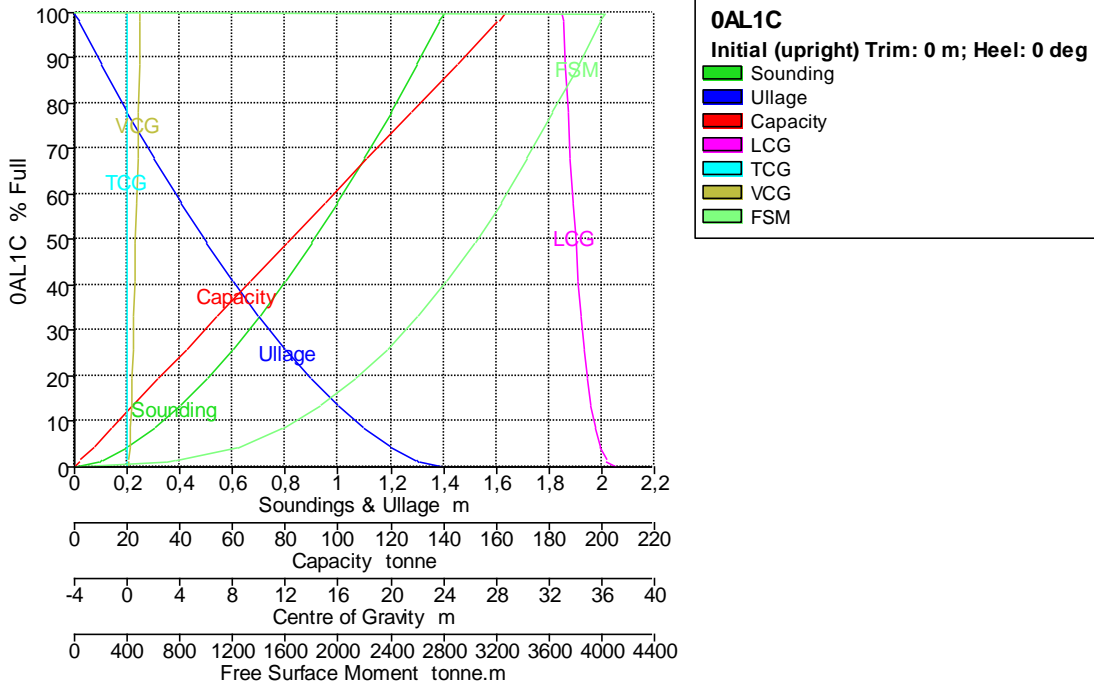


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
OALOC	5,700	0,000	100,000	515,690	528,583	11,000	0,000	8,650	0,000
	5,586	0,114	98,000	505,377	518,011	11,000	0,000	8,593	3953,350
	5,580	0,120	97,900	504,861	517,482	11,000	0,000	8,590	3953,350
	5,500	0,200	96,491	497,596	510,036	11,000	0,000	8,550	3953,350
	5,250	0,450	92,105	474,978	486,852	11,000	0,000	8,425	3953,350
	5,000	0,700	87,719	452,360	463,669	11,000	0,000	8,300	3953,350
	4,750	0,950	83,333	429,742	440,486	11,000	0,000	8,175	3953,350
	4,500	1,200	78,947	407,124	417,302	11,000	0,000	8,050	3953,350
	4,250	1,450	74,561	384,506	394,119	11,000	0,000	7,925	3953,350
	4,000	1,700	70,175	361,888	370,935	11,000	0,000	7,800	3953,350
	3,750	1,950	65,789	339,270	347,752	11,000	0,000	7,675	3953,350
	3,500	2,200	61,404	316,652	324,568	11,000	0,000	7,550	3953,350
	3,250	2,450	57,018	294,034	301,385	11,000	0,000	7,425	3953,350
	3,000	2,700	52,632	271,416	278,201	11,000	0,000	7,300	3953,350
	2,750	2,950	48,246	248,798	255,018	11,000	0,000	7,175	3953,350
	2,500	3,200	43,860	226,180	231,835	11,000	0,000	7,050	3953,350
	2,250	3,450	39,474	203,562	208,651	11,000	0,000	6,925	3953,350
	2,000	3,700	35,088	180,944	185,468	11,000	0,000	6,800	3953,350
	1,750	3,950	30,702	158,326	162,284	11,000	0,000	6,675	3953,350
	1,500	4,200	26,316	135,708	139,101	11,000	0,000	6,550	3953,350
	1,250	4,450	21,930	113,090	115,917	11,000	0,000	6,425	3953,350
	1,000	4,700	17,544	90,472	92,734	11,000	0,000	6,300	3953,350
	0,750	4,950	13,158	67,854	69,550	11,000	0,000	6,175	3953,350
	0,500	5,200	8,772	45,236	46,367	11,000	0,000	6,050	3953,350
	0,250	5,450	4,386	22,618	23,183	11,000	0,000	5,925	3953,350
	0,057	5,643	1,000	5,157	5,286	11,000	0,000	5,829	3953,350
	0,000	5,700	0,000	0,000	0,000	11,000	0,000	5,800	0,000

Tank Calibrations - 0AL1C

Fluid Type = Agua Lastre Specific gravity = 1,025

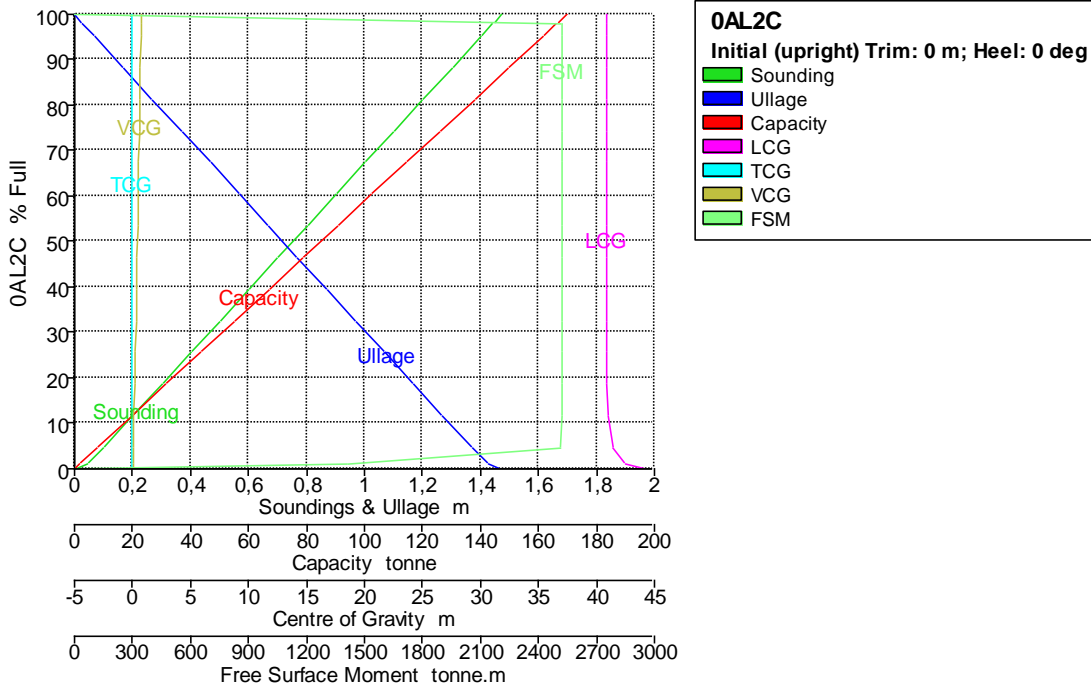
Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL1C	1,402	0,000	100,000	159,787	163,781	33,040	0,000	0,963	0,000
	1,400	0,002	99,741	159,372	163,357	33,044	0,000	0,961	4030,492
	1,385	0,017	98,000	156,591	160,506	33,073	0,000	0,952	3988,105
	1,384	0,018	97,900	156,431	160,342	33,074	0,000	0,951	3987,154
	1,300	0,102	88,456	141,341	144,875	33,233	0,000	0,899	3836,313
	1,200	0,202	77,730	124,202	127,307	33,425	0,000	0,837	3624,870
	1,100	0,302	67,577	107,979	110,679	33,620	0,000	0,776	3432,991
	1,000	0,402	57,999	92,675	94,992	33,818	0,000	0,714	3234,279
	0,900	0,502	49,004	78,302	80,260	34,023	0,000	0,653	3028,034
	0,800	0,602	40,605	64,881	66,503	34,233	0,000	0,592	2815,369
	0,700	0,702	32,817	52,438	53,749	34,453	0,000	0,531	2596,665
	0,600	0,802	25,664	41,007	42,033	34,684	0,000	0,470	2370,286
	0,500	0,902	19,172	30,635	31,401	34,930	0,000	0,409	2131,593
	0,400	1,002	13,386	21,389	21,924	35,200	0,000	0,350	1867,222
	0,300	1,102	8,373	13,379	13,713	35,506	0,000	0,287	1575,948
	0,200	1,202	4,248	6,788	6,957	35,871	0,000	0,228	1238,265
	0,100	1,302	1,236	1,975	2,024	36,364	0,000	0,166	760,585
	0,089	1,313	1,000	1,598	1,638	36,429	0,000	0,162	694,884
	0,000	1,402	0,000	0,000	0,000	37,173	0,000	0,098	0,000

Tank Calibrations - 0AL2C

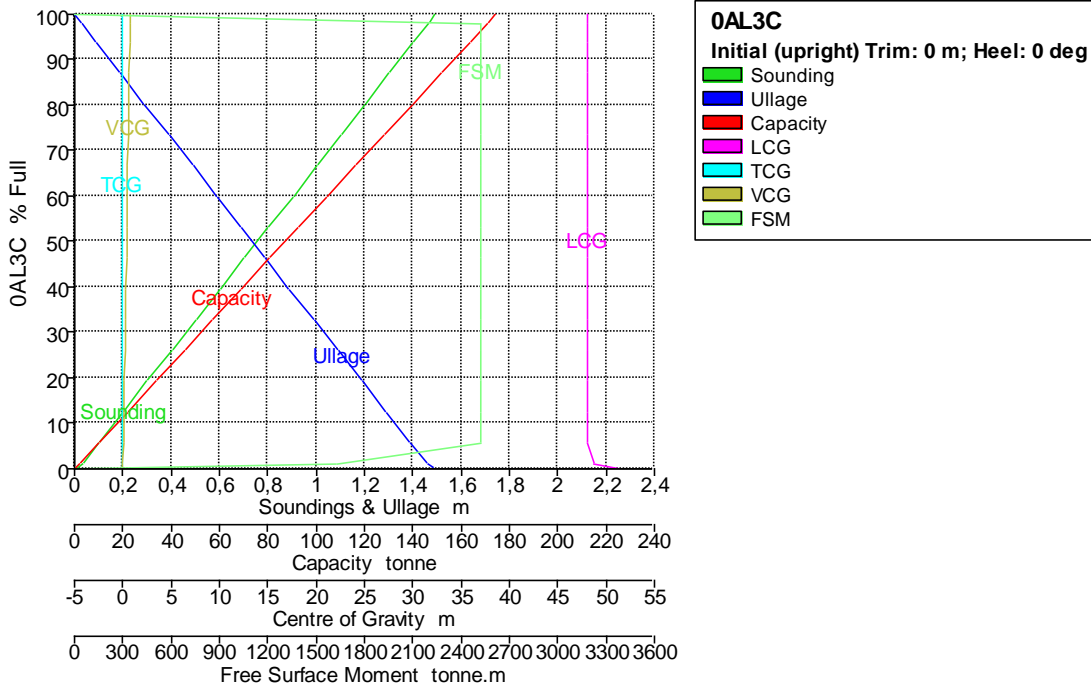
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL2C	1,472	0,000	100,000	165,617	169,757	40,827	0,000	0,781	0,000
	1,443	0,029	98,000	162,304	166,362	40,827	0,000	0,767	2519,040
	1,441	0,030	97,900	162,139	166,192	40,827	0,000	0,766	2519,040
	1,400	0,072	95,022	157,372	161,306	40,828	0,000	0,745	2519,040
	1,300	0,172	88,066	145,852	149,498	40,830	0,000	0,695	2519,040
	1,200	0,272	81,110	134,332	137,690	40,833	0,000	0,645	2519,040
	1,100	0,372	74,154	122,812	125,882	40,836	0,000	0,595	2519,040
	1,000	0,472	67,198	111,292	114,074	40,840	0,000	0,545	2519,040
	0,900	0,572	60,243	99,772	102,266	40,844	0,000	0,495	2519,040
	0,800	0,672	53,287	88,252	90,458	40,850	0,000	0,445	2519,040
	0,700	0,772	46,331	76,732	78,650	40,858	0,000	0,395	2519,040
	0,600	0,872	39,375	65,212	66,842	40,868	0,000	0,345	2519,040
	0,500	0,972	32,419	53,692	55,034	40,882	0,000	0,295	2519,040
	0,400	1,072	25,463	42,172	43,226	40,905	0,000	0,245	2519,040
	0,300	1,172	18,508	30,652	31,418	40,944	0,000	0,195	2519,040
	0,200	1,272	11,552	19,132	19,610	41,031	0,000	0,144	2519,040
	0,100	1,372	4,596	7,612	7,802	41,381	0,000	0,092	2515,128
	0,043	1,428	1,000	1,656	1,698	42,506	0,000	0,058	1409,890
	0,000	1,472	0,000	0,000	0,000	44,371	0,000	0,028	0,000

Tank Calibrations - 0AL3C

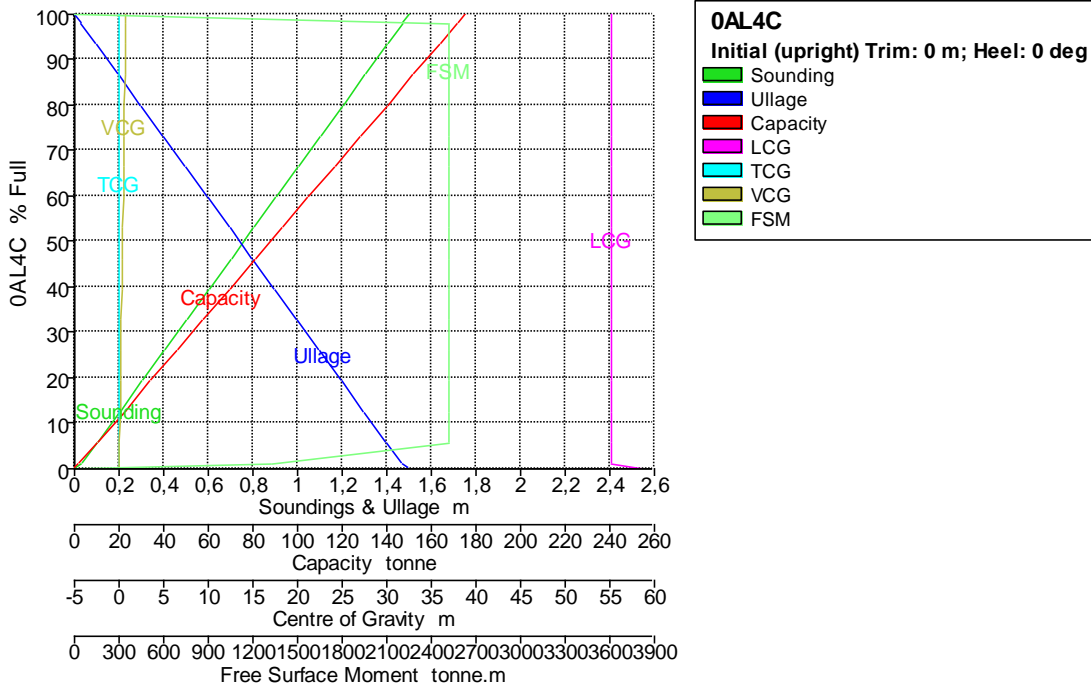
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL3C	1,493	0,000	100,000	170,025	174,275	48,008	0,000	0,762	0,000
	1,464	0,030	98,000	166,624	170,790	48,009	0,000	0,747	2519,040
	1,462	0,031	97,900	166,454	170,615	48,009	0,000	0,747	2519,040
	1,400	0,093	93,672	159,265	163,247	48,009	0,000	0,715	2519,040
	1,300	0,193	86,896	147,745	151,439	48,010	0,000	0,665	2519,040
	1,200	0,293	80,121	136,225	139,631	48,010	0,000	0,615	2519,040
	1,100	0,393	73,345	124,705	127,823	48,011	0,000	0,565	2519,040
	1,000	0,493	66,570	113,185	116,015	48,013	0,000	0,515	2519,040
	0,900	0,593	59,794	101,665	104,207	48,014	0,000	0,465	2519,040
	0,800	0,693	53,019	90,145	92,399	48,016	0,000	0,415	2519,040
	0,700	0,793	46,243	78,625	80,591	48,018	0,000	0,365	2519,040
	0,600	0,893	39,468	67,105	68,783	48,021	0,000	0,315	2519,040
	0,500	0,993	32,692	55,585	56,975	48,026	0,000	0,265	2519,040
	0,400	1,093	25,917	44,065	45,167	48,032	0,000	0,215	2519,040
	0,300	1,193	19,141	32,545	33,359	48,044	0,000	0,165	2519,040
	0,200	1,293	12,366	21,025	21,551	48,067	0,000	0,115	2519,040
	0,100	1,393	5,590	9,505	9,743	48,149	0,000	0,065	2519,040
	0,031	1,462	1,000	1,700	1,743	48,726	0,000	0,027	1619,916
	0,000	1,493	0,000	0,000	0,000	51,547	0,000	0,007	0,000

Tank Calibrations - 0AL4C

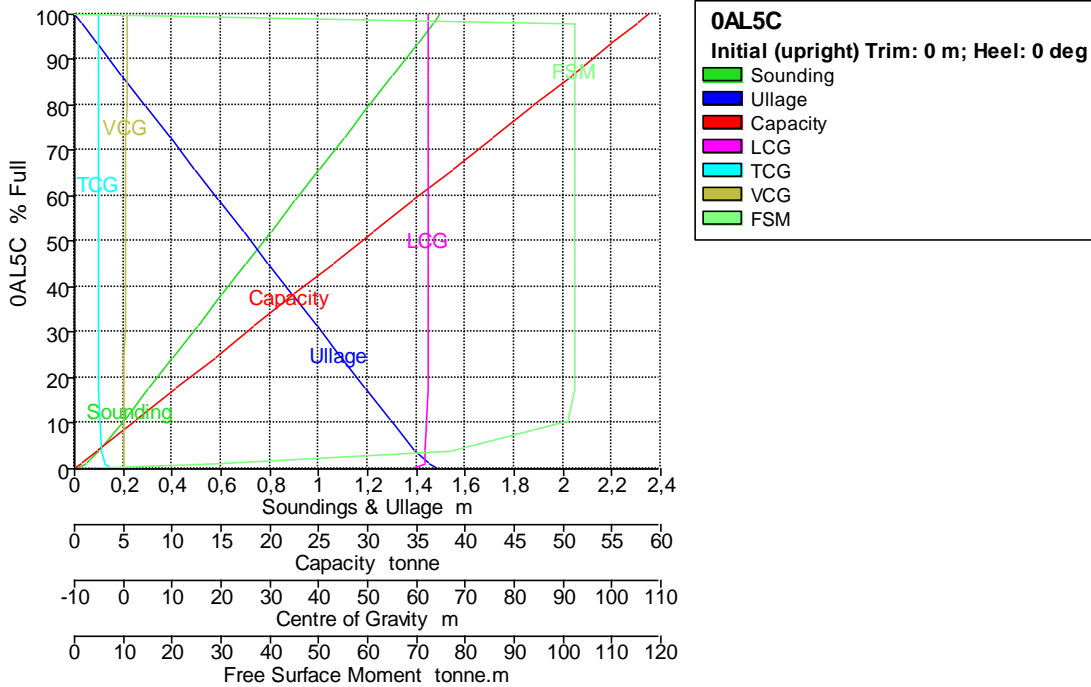
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL4C	1,500	0,000	100,000	171,049	175,325	55,199	0,000	0,758	0,000
	1,470	0,030	98,000	167,628	171,819	55,199	0,000	0,743	2519,040
	1,469	0,031	97,900	167,457	171,644	55,199	0,000	0,742	2519,040
	1,400	0,100	93,275	159,546	163,535	55,199	0,000	0,708	2519,040
	1,300	0,200	86,540	148,026	151,727	55,199	0,000	0,658	2519,040
	1,200	0,300	79,805	136,506	139,919	55,198	0,000	0,608	2519,040
	1,100	0,400	73,070	124,986	128,111	55,198	0,000	0,558	2519,040
	1,000	0,500	66,335	113,466	116,303	55,198	0,000	0,508	2519,040
	0,900	0,600	59,600	101,946	104,495	55,198	0,000	0,458	2519,040
	0,800	0,700	52,866	90,426	92,687	55,198	0,000	0,408	2519,040
	0,700	0,800	46,131	78,906	80,879	55,197	0,000	0,358	2519,040
	0,600	0,900	39,396	67,386	69,071	55,197	0,000	0,307	2519,040
	0,500	1,000	32,661	55,866	57,263	55,196	0,000	0,257	2519,040
	0,400	1,100	25,926	44,346	45,455	55,195	0,000	0,207	2519,040
	0,300	1,200	19,191	32,826	33,647	55,194	0,000	0,157	2519,040
	0,200	1,300	12,456	21,306	21,839	55,190	0,000	0,107	2519,040
	0,100	1,400	5,721	9,786	10,031	55,179	0,000	0,056	2519,040
	0,027	1,473	1,000	1,710	1,753	55,231	0,000	0,017	1320,708
	0,000	1,500	0,000	0,000	0,000	58,678	0,000	0,000	0,000

Tank Calibrations - 0AL5C

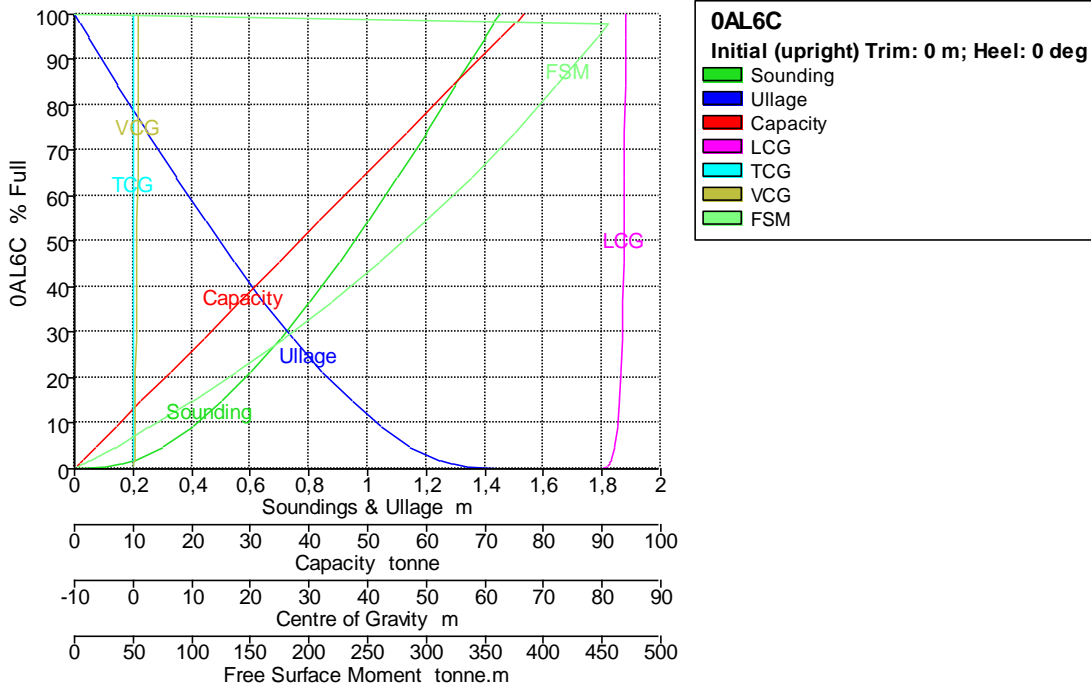
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL5C	1,496	0,000	100,000	57,326	58,759	62,373	-5,212	0,776	0,000
	1,467	0,029	98,000	56,180	57,584	62,372	-5,211	0,761	102,321
	1,466	0,030	97,900	56,122	57,525	62,372	-5,211	0,760	102,321
	1,400	0,096	93,359	53,519	54,857	62,371	-5,209	0,727	102,321
	1,300	0,196	86,451	49,559	50,798	62,369	-5,206	0,677	102,321
	1,200	0,296	79,543	45,599	46,739	62,366	-5,202	0,627	102,321
	1,100	0,396	72,635	41,639	42,680	62,363	-5,198	0,577	102,321
	1,000	0,496	65,728	37,679	38,621	62,359	-5,192	0,527	102,321
	0,900	0,596	58,820	33,719	34,562	62,354	-5,185	0,477	102,321
	0,800	0,696	51,912	29,759	30,503	62,348	-5,177	0,427	102,321
	0,700	0,796	45,004	25,799	26,444	62,340	-5,166	0,377	102,321
	0,600	0,896	38,096	21,839	22,385	62,329	-5,150	0,326	102,321
	0,500	0,996	31,188	17,879	18,326	62,313	-5,128	0,276	102,321
	0,400	1,096	24,281	13,919	14,267	62,289	-5,094	0,226	102,321
	0,300	1,196	17,373	9,959	10,208	62,244	-5,031	0,175	102,321
	0,200	1,296	10,469	6,001	6,151	62,143	-4,888	0,122	101,065
	0,100	1,396	3,865	2,215	2,271	61,896	-4,447	0,067	76,544
	0,045	1,451	1,000	0,573	0,588	61,597	-3,796	0,033	27,599
	0,000	1,496	0,000	0,000	0,000	58,868	-2,352	0,004	0,000

Tank Calibrations - 0AL6C

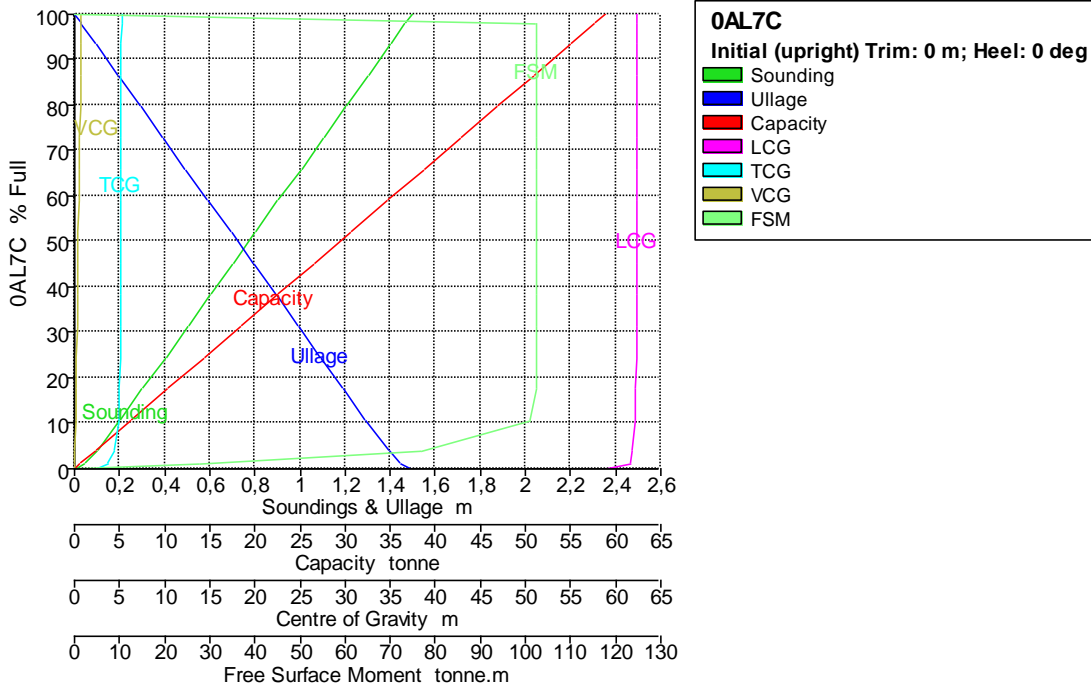
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
OAL6C	1,448	0,000	100,000	74,799	76,669	83,932	0,000	0,968	0,000
	1,430	0,018	98,000	73,303	75,136	83,927	0,000	0,957	455,224
	1,429	0,019	97,900	73,229	75,059	83,927	0,000	0,957	454,919
	1,400	0,048	94,752	70,874	72,646	83,919	0,000	0,940	445,225
	1,300	0,148	84,139	62,935	64,509	83,888	0,000	0,882	410,984
	1,200	0,248	73,841	55,233	56,614	83,851	0,000	0,823	375,233
	1,100	0,348	63,894	47,793	48,987	83,806	0,000	0,764	338,020
	1,000	0,448	54,340	40,646	41,662	83,750	0,000	0,704	299,431
	0,900	0,548	45,228	33,830	34,676	83,681	0,000	0,645	259,655
	0,800	0,648	36,618	27,390	28,075	83,590	0,000	0,584	219,019
	0,700	0,748	28,586	21,382	21,917	83,469	0,000	0,523	178,043
	0,600	0,848	21,225	15,876	16,273	83,300	0,000	0,460	137,515
	0,500	0,948	14,659	10,965	11,239	83,051	0,000	0,397	98,610
	0,400	1,048	9,064	6,779	6,949	82,671	0,000	0,331	63,078
	0,300	1,148	4,709	3,522	3,611	82,138	0,000	0,263	33,441
	0,200	1,248	1,798	1,345	1,379	81,498	0,000	0,194	12,385
	0,157	1,291	1,000	0,748	0,767	81,184	0,000	0,165	6,566
	0,100	1,348	0,316	0,237	0,243	80,701	0,000	0,124	1,790
	0,000	1,448	0,000	0,000	0,000	79,557	0,000	0,052	0,000

Tank Calibrations - 0AL7C

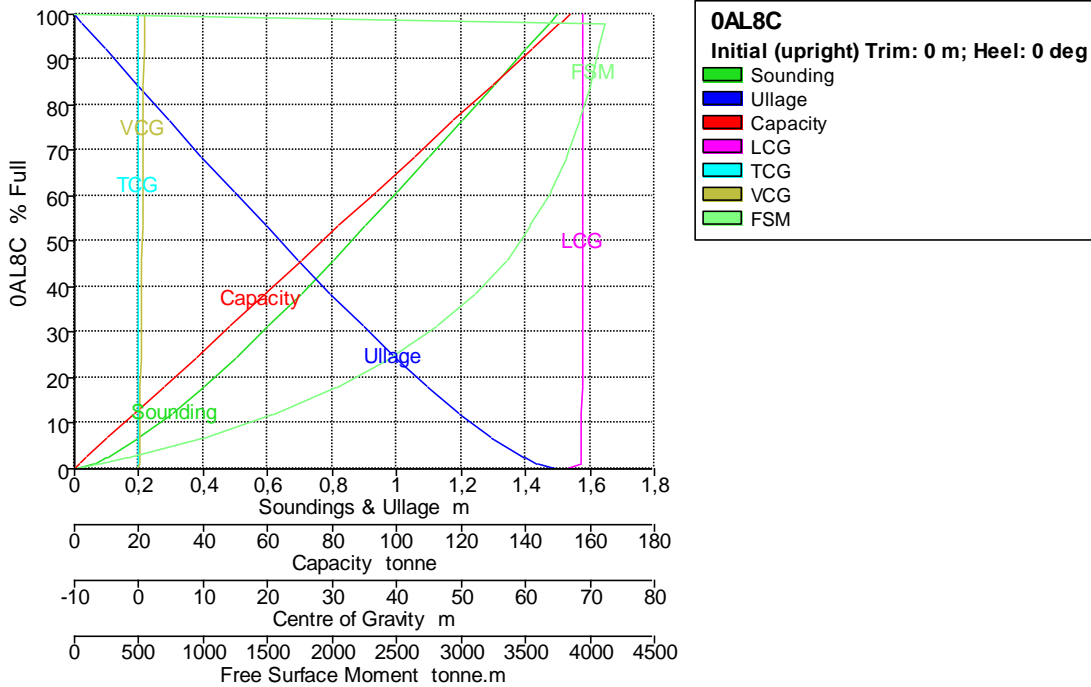
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL7C	1,496	0,000	100,000	57,326	58,759	62,373	5,212	0,776	0,000
	1,467	0,029	98,000	56,180	57,584	62,372	5,211	0,761	102,321
	1,466	0,030	97,900	56,122	57,525	62,372	5,211	0,760	102,321
	1,400	0,096	93,359	53,519	54,857	62,371	5,209	0,727	102,321
	1,300	0,196	86,451	49,559	50,798	62,369	5,206	0,677	102,321
	1,200	0,296	79,543	45,599	46,739	62,366	5,202	0,627	102,321
	1,100	0,396	72,635	41,639	42,680	62,363	5,198	0,577	102,321
	1,000	0,496	65,728	37,679	38,621	62,359	5,192	0,527	102,321
	0,900	0,596	58,820	33,719	34,562	62,354	5,185	0,477	102,321
	0,800	0,696	51,912	29,759	30,503	62,348	5,177	0,427	102,321
	0,700	0,796	45,004	25,799	26,444	62,340	5,166	0,377	102,321
	0,600	0,896	38,096	21,839	22,385	62,329	5,150	0,326	102,321
	0,500	0,996	31,188	17,879	18,326	62,313	5,128	0,276	102,321
	0,400	1,096	24,281	13,919	14,267	62,289	5,094	0,226	102,321
	0,300	1,196	17,373	9,959	10,208	62,244	5,031	0,175	102,321
	0,200	1,296	10,469	6,001	6,151	62,143	4,888	0,122	101,065
	0,100	1,396	3,865	2,215	2,271	61,896	4,447	0,067	76,544
	0,045	1,451	1,000	0,573	0,588	61,597	3,796	0,033	27,599
	0,000	1,496	0,000	0,000	0,000	58,868	2,352	0,004	0,000

Tank Calibrations - 0AL8C

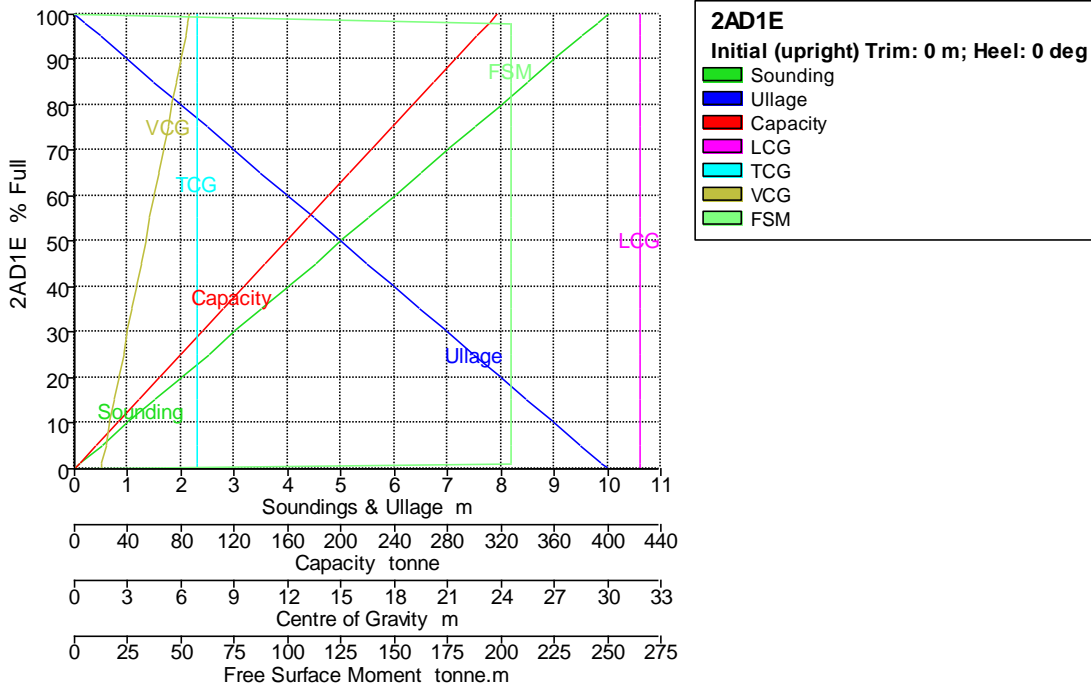
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
OAL8C	1,498	0,000	100,000	149,995	153,745	68,853	0,000	0,839	0,000
	1,473	0,025	98,000	146,996	150,670	68,852	0,000	0,826	4113,223
	1,472	0,026	97,900	146,846	150,517	68,852	0,000	0,825	4112,541
	1,400	0,098	92,193	138,286	141,743	68,849	0,000	0,787	4071,002
	1,300	0,198	84,259	126,385	129,544	68,844	0,000	0,734	4003,256
	1,200	0,298	76,376	114,560	117,424	68,838	0,000	0,681	3921,075
	1,100	0,398	68,556	102,830	105,401	68,832	0,000	0,627	3820,305
	1,000	0,498	60,815	91,220	93,500	68,825	0,000	0,573	3695,655
	0,900	0,598	53,175	79,760	81,754	68,816	0,000	0,518	3540,619
	0,800	0,698	45,664	68,494	70,207	68,807	0,000	0,463	3347,420
	0,700	0,798	38,321	57,479	58,916	68,796	0,000	0,408	3107,321
	0,600	0,898	31,194	46,790	47,959	68,784	0,000	0,352	2811,643
	0,500	0,998	24,350	36,524	37,437	68,770	0,000	0,296	2453,174
	0,400	1,098	17,876	26,813	27,484	68,752	0,000	0,239	2027,865
	0,300	1,198	11,894	17,840	18,286	68,728	0,000	0,181	1535,888
	0,200	1,298	6,589	9,884	10,131	68,692	0,000	0,123	982,839
	0,100	1,398	2,300	3,449	3,536	68,618	0,000	0,064	403,223
	0,059	1,439	1,000	1,500	1,537	68,543	0,000	0,039	187,311
	0,000	1,498	0,000	0,000	0,000	66,059	0,000	0,002	0,000

Tank Calibrations - 2AD1E

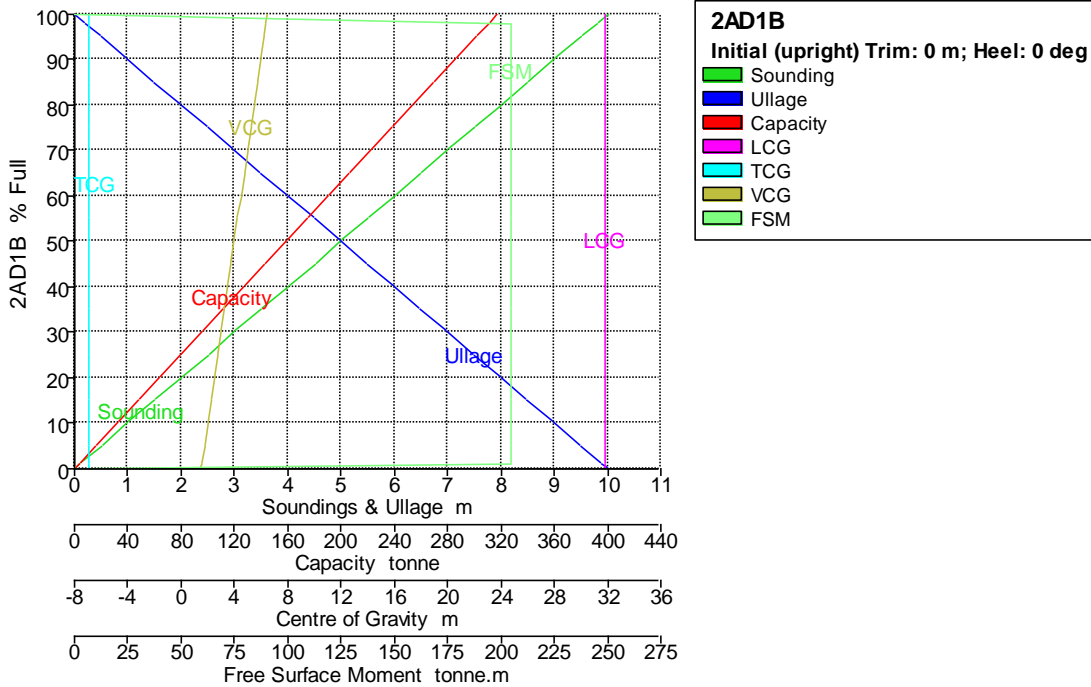
Fluid Type = AD Specific gravity = 1
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AD1E	10,000	0,000	100,000	317,124	317,124	31,800	6,905	6,500	0,000
	9,800	0,200	98,000	310,782	310,782	31,800	6,905	6,400	205,070
	9,790	0,210	97,900	310,464	310,464	31,800	6,905	6,395	205,070
	9,500	0,500	95,000	301,268	301,268	31,800	6,905	6,250	205,070
	9,000	1,000	90,000	285,412	285,412	31,800	6,905	6,000	205,070
	8,500	1,500	85,000	269,555	269,555	31,800	6,905	5,750	205,070
	8,000	2,000	80,000	253,699	253,699	31,800	6,905	5,500	205,070
	7,500	2,500	75,000	237,843	237,843	31,800	6,905	5,250	205,070
	7,000	3,000	70,000	221,987	221,987	31,800	6,905	5,000	205,070
	6,500	3,500	65,000	206,131	206,131	31,800	6,905	4,750	205,070
	6,000	4,000	60,000	190,274	190,274	31,800	6,905	4,500	205,070
	5,500	4,500	55,000	174,418	174,418	31,800	6,905	4,250	205,070
	5,000	5,000	50,000	158,562	158,562	31,800	6,905	4,000	205,070
	4,500	5,500	45,000	142,706	142,706	31,800	6,905	3,750	205,070
	4,000	6,000	40,000	126,850	126,850	31,800	6,905	3,500	205,070
	3,500	6,500	35,000	110,993	110,993	31,800	6,905	3,250	205,070
	3,000	7,000	30,000	95,137	95,137	31,800	6,905	3,000	205,070
	2,500	7,500	25,000	79,281	79,281	31,800	6,905	2,750	205,070
	2,000	8,000	20,000	63,425	63,425	31,800	6,905	2,500	205,070
	1,500	8,500	15,000	47,569	47,569	31,800	6,905	2,250	205,070
	1,000	9,000	10,000	31,712	31,712	31,800	6,905	2,000	205,070
	0,500	9,500	5,000	15,856	15,856	31,800	6,905	1,750	205,070
	0,100	9,900	1,000	3,171	3,171	31,800	6,905	1,550	205,070
	0,000	10,000	0,000	0,000	0,000	31,800	6,905	1,500	0,000

Tank Calibrations - 2AD1B

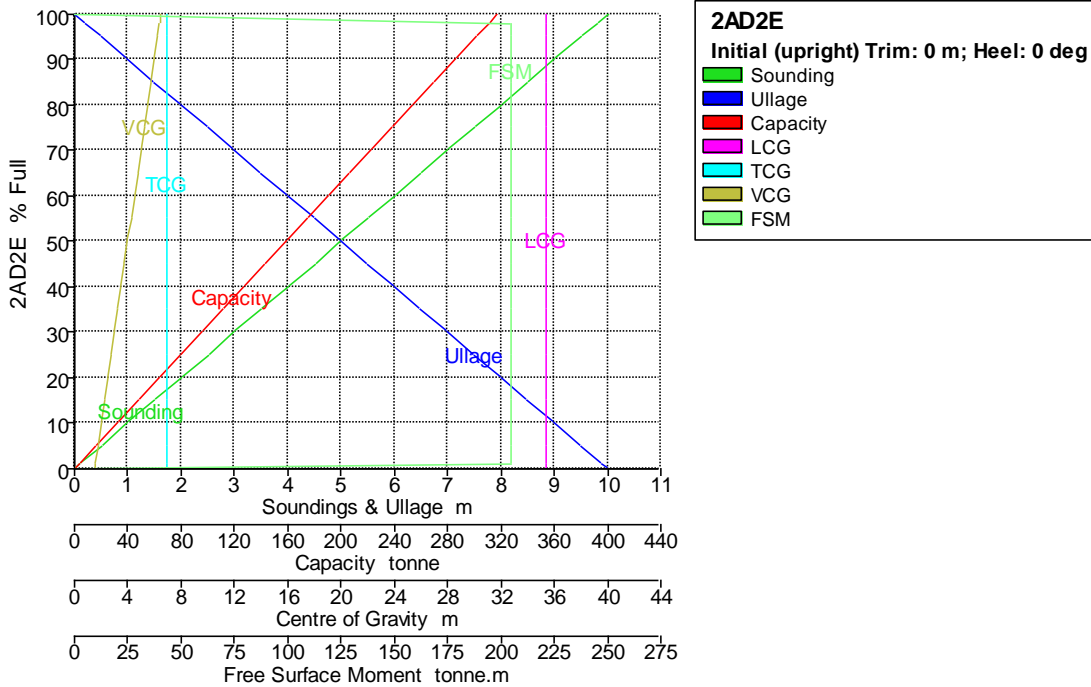
Fluid Type = AD Specific gravity = 1
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AD1B	10,000	0,000	100,000	317,124	317,124	31,800	-6,905	6,500	0,000
	9,800	0,200	98,000	310,782	310,782	31,800	-6,905	6,400	205,070
	9,790	0,210	97,900	310,464	310,464	31,800	-6,905	6,395	205,070
	9,500	0,500	95,000	301,268	301,268	31,800	-6,905	6,250	205,070
	9,000	1,000	90,000	285,412	285,412	31,800	-6,905	6,000	205,070
	8,500	1,500	85,000	269,555	269,555	31,800	-6,905	5,750	205,070
	8,000	2,000	80,000	253,699	253,699	31,800	-6,905	5,500	205,070
	7,500	2,500	75,000	237,843	237,843	31,800	-6,905	5,250	205,070
	7,000	3,000	70,000	221,987	221,987	31,800	-6,905	5,000	205,070
	6,500	3,500	65,000	206,131	206,131	31,800	-6,905	4,750	205,070
	6,000	4,000	60,000	190,274	190,274	31,800	-6,905	4,500	205,070
	5,500	4,500	55,000	174,418	174,418	31,800	-6,905	4,250	205,070
	5,000	5,000	50,000	158,562	158,562	31,800	-6,905	4,000	205,070
	4,500	5,500	45,000	142,706	142,706	31,800	-6,905	3,750	205,070
	4,000	6,000	40,000	126,850	126,850	31,800	-6,905	3,500	205,070
	3,500	6,500	35,000	110,993	110,993	31,800	-6,905	3,250	205,070
	3,000	7,000	30,000	95,137	95,137	31,800	-6,905	3,000	205,070
	2,500	7,500	25,000	79,281	79,281	31,800	-6,905	2,750	205,070
	2,000	8,000	20,000	63,425	63,425	31,800	-6,905	2,500	205,070
	1,500	8,500	15,000	47,569	47,569	31,800	-6,905	2,250	205,070
	1,000	9,000	10,000	31,712	31,712	31,800	-6,905	2,000	205,070
	0,500	9,500	5,000	15,856	15,856	31,800	-6,905	1,750	205,070
	0,100	9,900	1,000	3,171	3,171	31,800	-6,905	1,550	205,070
	0,000	10,000	0,000	0,000	0,000	31,800	-6,905	1,500	0,000

Tank Calibrations - 2AD2E

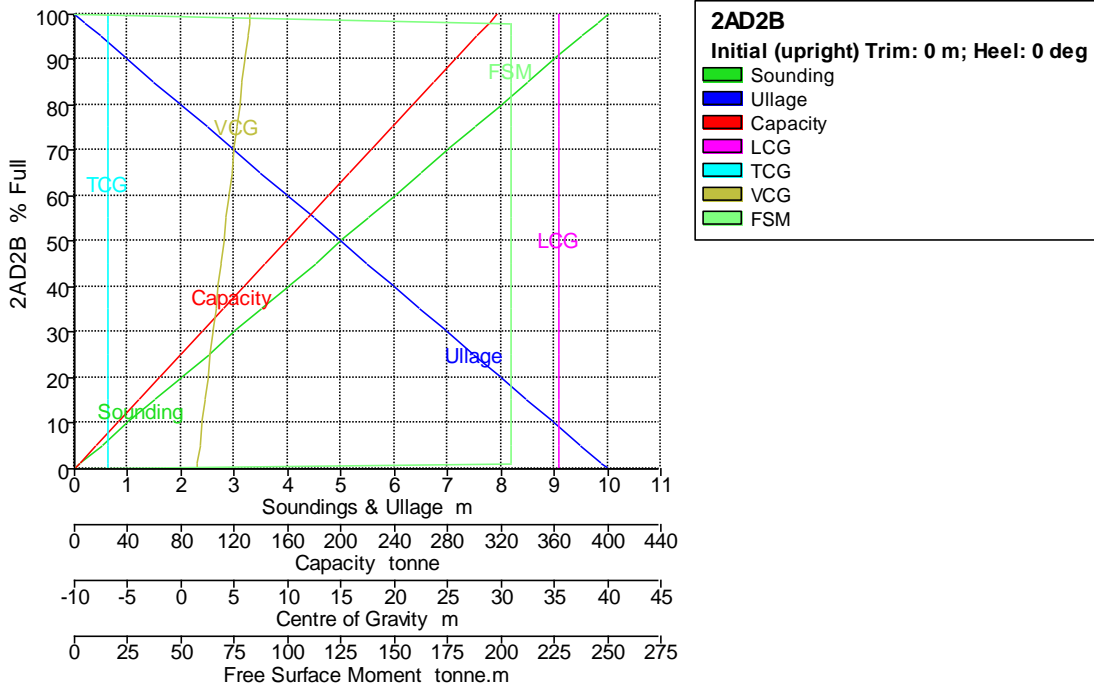
Fluid Type = AD Specific gravity = 1
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AD2E	10,000	0,000	100,000	317,124	317,124	35,400	6,905	6,500	0,000
	9,800	0,200	98,000	310,781	310,781	35,400	6,905	6,400	205,069
	9,790	0,210	97,900	310,464	310,464	35,400	6,905	6,395	205,069
	9,500	0,500	95,000	301,268	301,268	35,400	6,905	6,250	205,069
	9,000	1,000	90,000	285,412	285,412	35,400	6,905	6,000	205,069
	8,500	1,500	85,000	269,555	269,555	35,400	6,905	5,750	205,069
	8,000	2,000	80,000	253,699	253,699	35,400	6,905	5,500	205,069
	7,500	2,500	75,000	237,843	237,843	35,400	6,905	5,250	205,069
	7,000	3,000	70,000	221,987	221,987	35,400	6,905	5,000	205,069
	6,500	3,500	65,000	206,131	206,131	35,400	6,905	4,750	205,069
	6,000	4,000	60,000	190,274	190,274	35,400	6,905	4,500	205,069
	5,500	4,500	55,000	174,418	174,418	35,400	6,905	4,250	205,069
	5,000	5,000	50,000	158,562	158,562	35,400	6,905	4,000	205,069
	4,500	5,500	45,000	142,706	142,706	35,400	6,905	3,750	205,069
	4,000	6,000	40,000	126,850	126,850	35,400	6,905	3,500	205,069
	3,500	6,500	35,000	110,993	110,993	35,400	6,905	3,250	205,069
	3,000	7,000	30,000	95,137	95,137	35,400	6,905	3,000	205,069
	2,500	7,500	25,000	79,281	79,281	35,400	6,905	2,750	205,069
	2,000	8,000	20,000	63,425	63,425	35,400	6,905	2,500	205,069
	1,500	8,500	15,000	47,569	47,569	35,400	6,905	2,250	205,069
	1,000	9,000	10,000	31,712	31,712	35,400	6,905	2,000	205,069
	0,500	9,500	5,000	15,856	15,856	35,400	6,905	1,750	205,069
	0,100	9,900	1,000	3,171	3,171	35,400	6,905	1,550	205,069
	0,000	10,000	0,000	0,000	0,000	35,400	6,905	1,500	0,000

Tank Calibrations - 2AD2B

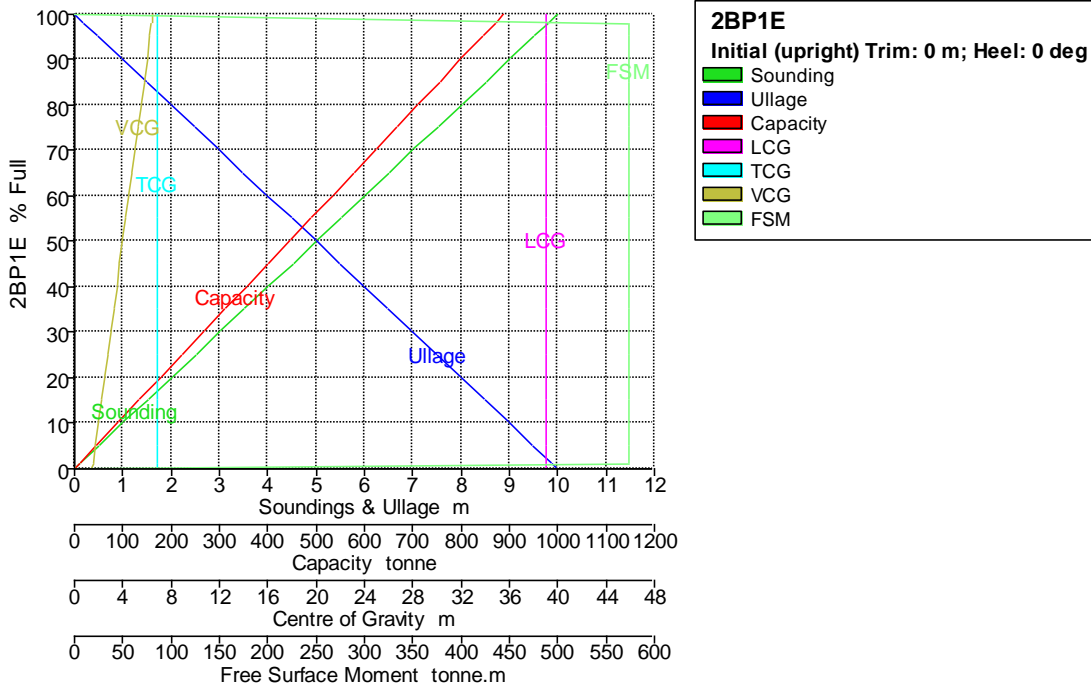
Fluid Type = AD Specific gravity = 1
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AD2B	10,000	0,000	100,000	317,124	317,124	35,400	-6,905	6,500	0,000
	9,800	0,200	98,000	310,781	310,781	35,400	-6,905	6,400	205,069
	9,790	0,210	97,900	310,464	310,464	35,400	-6,905	6,395	205,069
	9,500	0,500	95,000	301,268	301,268	35,400	-6,905	6,250	205,069
	9,000	1,000	90,000	285,412	285,412	35,400	-6,905	6,000	205,069
	8,500	1,500	85,000	269,555	269,555	35,400	-6,905	5,750	205,069
	8,000	2,000	80,000	253,699	253,699	35,400	-6,905	5,500	205,069
	7,500	2,500	75,000	237,843	237,843	35,400	-6,905	5,250	205,069
	7,000	3,000	70,000	221,987	221,987	35,400	-6,905	5,000	205,069
	6,500	3,500	65,000	206,131	206,131	35,400	-6,905	4,750	205,069
	6,000	4,000	60,000	190,274	190,274	35,400	-6,905	4,500	205,069
	5,500	4,500	55,000	174,418	174,418	35,400	-6,905	4,250	205,069
	5,000	5,000	50,000	158,562	158,562	35,400	-6,905	4,000	205,069
	4,500	5,500	45,000	142,706	142,706	35,400	-6,905	3,750	205,069
	4,000	6,000	40,000	126,850	126,850	35,400	-6,905	3,500	205,069
	3,500	6,500	35,000	110,993	110,993	35,400	-6,905	3,250	205,069
	3,000	7,000	30,000	95,137	95,137	35,400	-6,905	3,000	205,069
	2,500	7,500	25,000	79,281	79,281	35,400	-6,905	2,750	205,069
	2,000	8,000	20,000	63,425	63,425	35,400	-6,905	2,500	205,069
	1,500	8,500	15,000	47,569	47,569	35,400	-6,905	2,250	205,069
	1,000	9,000	10,000	31,712	31,712	35,400	-6,905	2,000	205,069
	0,500	9,500	5,000	15,856	15,856	35,400	-6,905	1,750	205,069
	0,100	9,900	1,000	3,171	3,171	35,400	-6,905	1,550	205,069
	0,000	10,000	0,000	0,000	0,000	35,400	-6,905	1,500	0,000

Tank Calibrations - 2BP1E

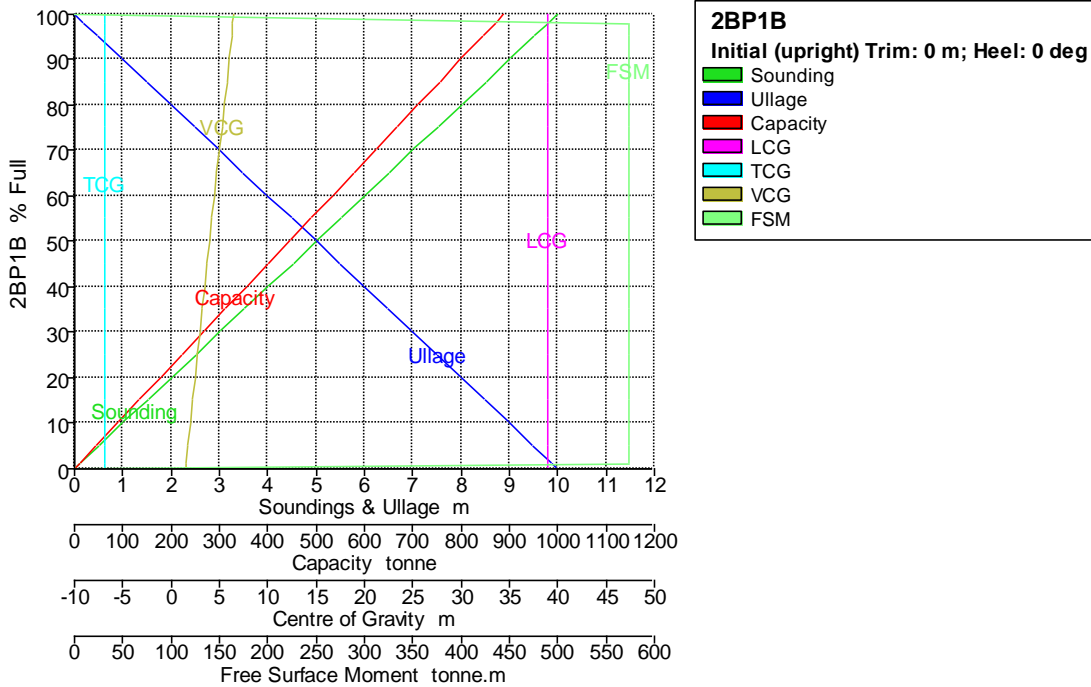
Fluid Type = MUD Specific gravity = 2,8
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2BP1E	10,000	0,000	100,000	317,124	887,947	39,000	6,905	6,500	0,000
	9,800	0,200	98,000	310,782	870,188	39,000	6,905	6,400	574,195
	9,790	0,210	97,900	310,464	869,300	39,000	6,905	6,395	574,195
	9,500	0,500	95,000	301,268	843,550	39,000	6,905	6,250	574,195
	9,000	1,000	90,000	285,412	799,153	39,000	6,905	6,000	574,195
	8,500	1,500	85,000	269,555	754,755	39,000	6,905	5,750	574,195
	8,000	2,000	80,000	253,699	710,358	39,000	6,905	5,500	574,195
	7,500	2,500	75,000	237,843	665,960	39,000	6,905	5,250	574,195
	7,000	3,000	70,000	221,987	621,563	39,000	6,905	5,000	574,195
	6,500	3,500	65,000	206,131	577,166	39,000	6,905	4,750	574,195
	6,000	4,000	60,000	190,274	532,768	39,000	6,905	4,500	574,195
	5,500	4,500	55,000	174,418	488,371	39,000	6,905	4,250	574,195
	5,000	5,000	50,000	158,562	443,974	39,000	6,905	4,000	574,195
	4,500	5,500	45,000	142,706	399,576	39,000	6,905	3,750	574,195
	4,000	6,000	40,000	126,850	355,179	39,000	6,905	3,500	574,195
	3,500	6,500	35,000	110,993	310,782	39,000	6,905	3,250	574,195
	3,000	7,000	30,000	95,137	266,384	39,000	6,905	3,000	574,195
	2,500	7,500	25,000	79,281	221,987	39,000	6,905	2,750	574,195
	2,000	8,000	20,000	63,425	177,589	39,000	6,905	2,500	574,195
	1,500	8,500	15,000	47,569	133,192	39,000	6,905	2,250	574,195
	1,000	9,000	10,000	31,712	88,795	39,000	6,905	2,000	574,195
	0,500	9,500	5,000	15,856	44,397	39,000	6,905	1,750	574,195
	0,100	9,900	1,000	3,171	8,879	39,000	6,905	1,550	574,195
	0,000	10,000	0,000	0,000	0,000	39,000	6,905	1,500	0,000

Tank Calibrations - 2BP1B

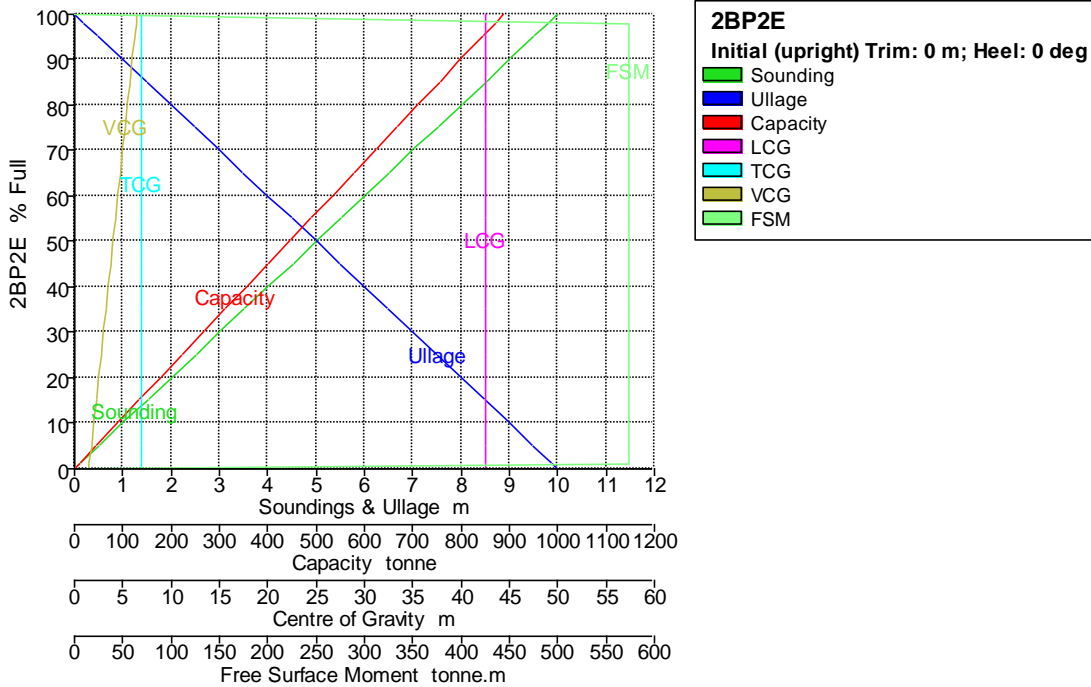
Fluid Type = MUD Specific gravity = 2,8
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2BP1B	10,000	0,000	100,000	317,124	887,947	39,000	-6,905	6,500	0,000
	9,800	0,200	98,000	310,782	870,188	39,000	-6,905	6,400	574,195
	9,790	0,210	97,900	310,464	869,300	39,000	-6,905	6,395	574,195
	9,500	0,500	95,000	301,268	843,550	39,000	-6,905	6,250	574,195
	9,000	1,000	90,000	285,412	799,153	39,000	-6,905	6,000	574,195
	8,500	1,500	85,000	269,555	754,755	39,000	-6,905	5,750	574,195
	8,000	2,000	80,000	253,699	710,358	39,000	-6,905	5,500	574,195
	7,500	2,500	75,000	237,843	665,960	39,000	-6,905	5,250	574,195
	7,000	3,000	70,000	221,987	621,563	39,000	-6,905	5,000	574,195
	6,500	3,500	65,000	206,131	577,166	39,000	-6,905	4,750	574,195
	6,000	4,000	60,000	190,274	532,768	39,000	-6,905	4,500	574,195
	5,500	4,500	55,000	174,418	488,371	39,000	-6,905	4,250	574,195
	5,000	5,000	50,000	158,562	443,974	39,000	-6,905	4,000	574,195
	4,500	5,500	45,000	142,706	399,576	39,000	-6,905	3,750	574,195
	4,000	6,000	40,000	126,850	355,179	39,000	-6,905	3,500	574,195
	3,500	6,500	35,000	110,993	310,782	39,000	-6,905	3,250	574,195
	3,000	7,000	30,000	95,137	266,384	39,000	-6,905	3,000	574,195
	2,500	7,500	25,000	79,281	221,987	39,000	-6,905	2,750	574,195
	2,000	8,000	20,000	63,425	177,589	39,000	-6,905	2,500	574,195
	1,500	8,500	15,000	47,569	133,192	39,000	-6,905	2,250	574,195
	1,000	9,000	10,000	31,712	88,795	39,000	-6,905	2,000	574,195
	0,500	9,500	5,000	15,856	44,397	39,000	-6,905	1,750	574,195
	0,100	9,900	1,000	3,171	8,879	39,000	-6,905	1,550	574,195
	0,000	10,000	0,000	0,000	0,000	39,000	-6,905	1,500	0,000

Tank Calibrations - 2BP2E

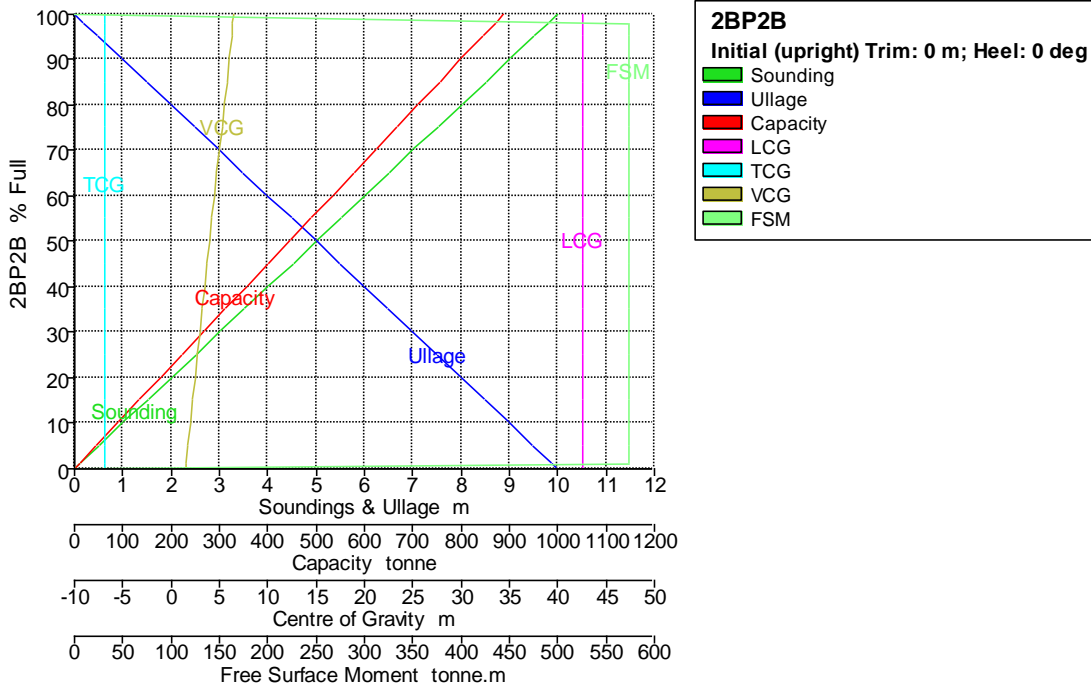
Fluid Type = MUD Specific gravity = 2,8
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2BP2E	10,000	0,000	100,000	317,124	887,947	42,600	6,905	6,500	0,000
	9,800	0,200	98,000	310,782	870,188	42,600	6,905	6,400	574,195
	9,790	0,210	97,900	310,464	869,300	42,600	6,905	6,395	574,195
	9,500	0,500	95,000	301,268	843,550	42,600	6,905	6,250	574,195
	9,000	1,000	90,000	285,412	799,152	42,600	6,905	6,000	574,195
	8,500	1,500	85,000	269,555	754,755	42,600	6,905	5,750	574,195
	8,000	2,000	80,000	253,699	710,358	42,600	6,905	5,500	574,195
	7,500	2,500	75,000	237,843	665,960	42,600	6,905	5,250	574,195
	7,000	3,000	70,000	221,987	621,563	42,600	6,905	5,000	574,195
	6,500	3,500	65,000	206,131	577,166	42,600	6,905	4,750	574,195
	6,000	4,000	60,000	190,274	532,768	42,600	6,905	4,500	574,195
	5,500	4,500	55,000	174,418	488,371	42,600	6,905	4,250	574,195
	5,000	5,000	50,000	158,562	443,974	42,600	6,905	4,000	574,195
	4,500	5,500	45,000	142,706	399,576	42,600	6,905	3,750	574,195
	4,000	6,000	40,000	126,850	355,179	42,600	6,905	3,500	574,195
	3,500	6,500	35,000	110,993	310,782	42,600	6,905	3,250	574,195
	3,000	7,000	30,000	95,137	266,384	42,600	6,905	3,000	574,195
	2,500	7,500	25,000	79,281	221,987	42,600	6,905	2,750	574,195
	2,000	8,000	20,000	63,425	177,589	42,600	6,905	2,500	574,195
	1,500	8,500	15,000	47,569	133,192	42,600	6,905	2,250	574,195
	1,000	9,000	10,000	31,712	88,795	42,600	6,905	2,000	574,195
	0,500	9,500	5,000	15,856	44,397	42,600	6,905	1,750	574,195
	0,100	9,900	1,000	3,171	8,879	42,600	6,905	1,550	574,195
	0,000	10,000	0,000	0,000	0,000	42,600	6,905	1,500	0,000

Tank Calibrations - 2BP2B

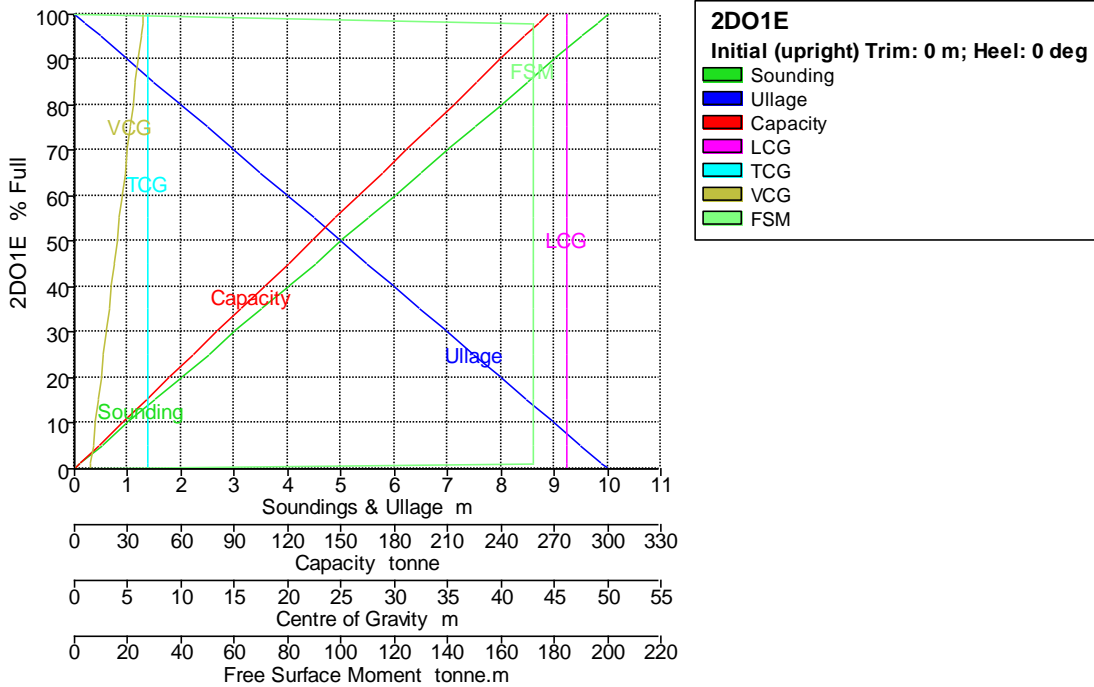
Fluid Type = MUD Specific gravity = 2,8
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2BP2B	10,000	0,000	100,000	317,124	887,947	42,600	-6,905	6,500	0,000
	9,800	0,200	98,000	310,782	870,188	42,600	-6,905	6,400	574,195
	9,790	0,210	97,900	310,464	869,300	42,600	-6,905	6,395	574,195
	9,500	0,500	95,000	301,268	843,550	42,600	-6,905	6,250	574,195
	9,000	1,000	90,000	285,412	799,152	42,600	-6,905	6,000	574,195
	8,500	1,500	85,000	269,555	754,755	42,600	-6,905	5,750	574,195
	8,000	2,000	80,000	253,699	710,358	42,600	-6,905	5,500	574,195
	7,500	2,500	75,000	237,843	665,960	42,600	-6,905	5,250	574,195
	7,000	3,000	70,000	221,987	621,563	42,600	-6,905	5,000	574,195
	6,500	3,500	65,000	206,131	577,166	42,600	-6,905	4,750	574,195
	6,000	4,000	60,000	190,274	532,768	42,600	-6,905	4,500	574,195
	5,500	4,500	55,000	174,418	488,371	42,600	-6,905	4,250	574,195
	5,000	5,000	50,000	158,562	443,974	42,600	-6,905	4,000	574,195
	4,500	5,500	45,000	142,706	399,576	42,600	-6,905	3,750	574,195
	4,000	6,000	40,000	126,850	355,179	42,600	-6,905	3,500	574,195
	3,500	6,500	35,000	110,993	310,782	42,600	-6,905	3,250	574,195
	3,000	7,000	30,000	95,137	266,384	42,600	-6,905	3,000	574,195
	2,500	7,500	25,000	79,281	221,987	42,600	-6,905	2,750	574,195
	2,000	8,000	20,000	63,425	177,589	42,600	-6,905	2,500	574,195
	1,500	8,500	15,000	47,569	133,192	42,600	-6,905	2,250	574,195
	1,000	9,000	10,000	31,712	88,795	42,600	-6,905	2,000	574,195
	0,500	9,500	5,000	15,856	44,397	42,600	-6,905	1,750	574,195
	0,100	9,900	1,000	3,171	8,879	42,600	-6,905	1,550	574,195
	0,000	10,000	0,000	0,000	0,000	42,600	-6,905	1,500	0,000

Tank Calibrations - 2D01E

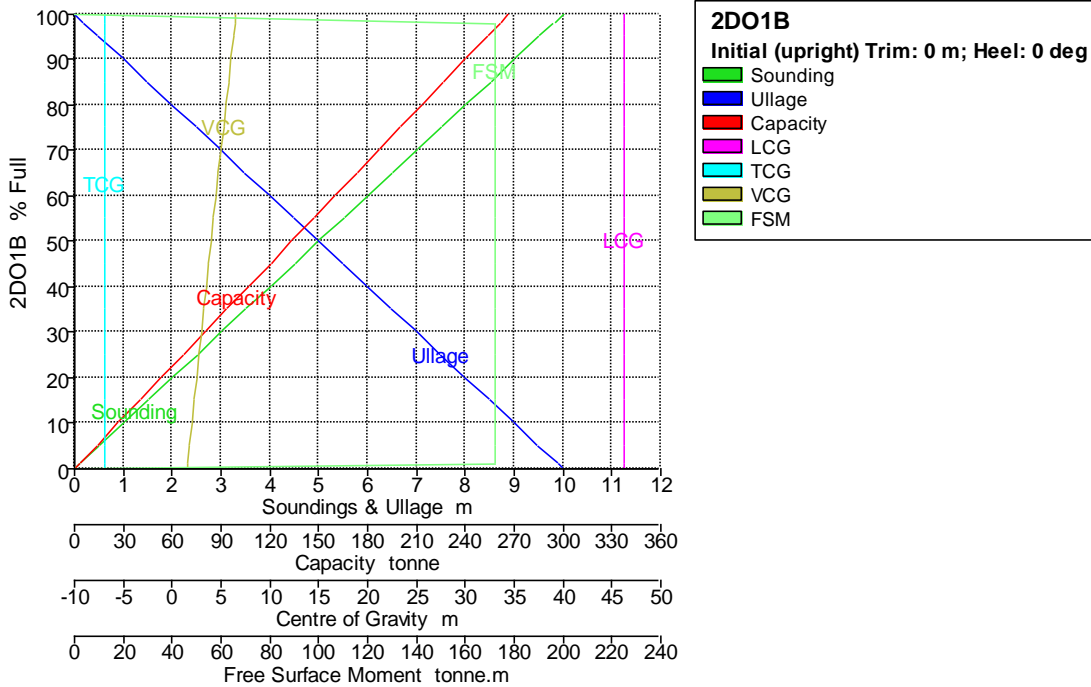
Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2D01E	10,000	0,000	100,000	317,124	266,384	46,200	6,905	6,500	0,000
	9,800	0,200	98,000	310,782	261,056	46,200	6,905	6,400	172,258
	9,790	0,210	97,900	310,464	260,790	46,200	6,905	6,395	172,258
	9,500	0,500	95,000	301,268	253,065	46,200	6,905	6,250	172,258
	9,000	1,000	90,000	285,412	239,746	46,200	6,905	6,000	172,258
	8,500	1,500	85,000	269,555	226,427	46,200	6,905	5,750	172,258
	8,000	2,000	80,000	253,699	213,107	46,200	6,905	5,500	172,258
	7,500	2,500	75,000	237,843	199,788	46,200	6,905	5,250	172,258
	7,000	3,000	70,000	221,987	186,469	46,200	6,905	5,000	172,258
	6,500	3,500	65,000	206,131	173,150	46,200	6,905	4,750	172,258
	6,000	4,000	60,000	190,274	159,830	46,200	6,905	4,500	172,258
	5,500	4,500	55,000	174,418	146,511	46,200	6,905	4,250	172,258
	5,000	5,000	50,000	158,562	133,192	46,200	6,905	4,000	172,258
	4,500	5,500	45,000	142,706	119,873	46,200	6,905	3,750	172,258
	4,000	6,000	40,000	126,850	106,554	46,200	6,905	3,500	172,258
	3,500	6,500	35,000	110,993	93,234	46,200	6,905	3,250	172,258
	3,000	7,000	30,000	95,137	79,915	46,200	6,905	3,000	172,258
	2,500	7,500	25,000	79,281	66,596	46,200	6,905	2,750	172,258
	2,000	8,000	20,000	63,425	53,277	46,200	6,905	2,500	172,258
	1,500	8,500	15,000	47,569	39,958	46,200	6,905	2,250	172,258
	1,000	9,000	10,000	31,712	26,638	46,200	6,905	2,000	172,258
	0,500	9,500	5,000	15,856	13,319	46,200	6,905	1,750	172,258
	0,100	9,900	1,000	3,171	2,664	46,200	6,905	1,550	172,258
	0,000	10,000	0,000	0,000	0,000	46,200	6,905	1,500	0,000

Tank Calibrations - 2D01B

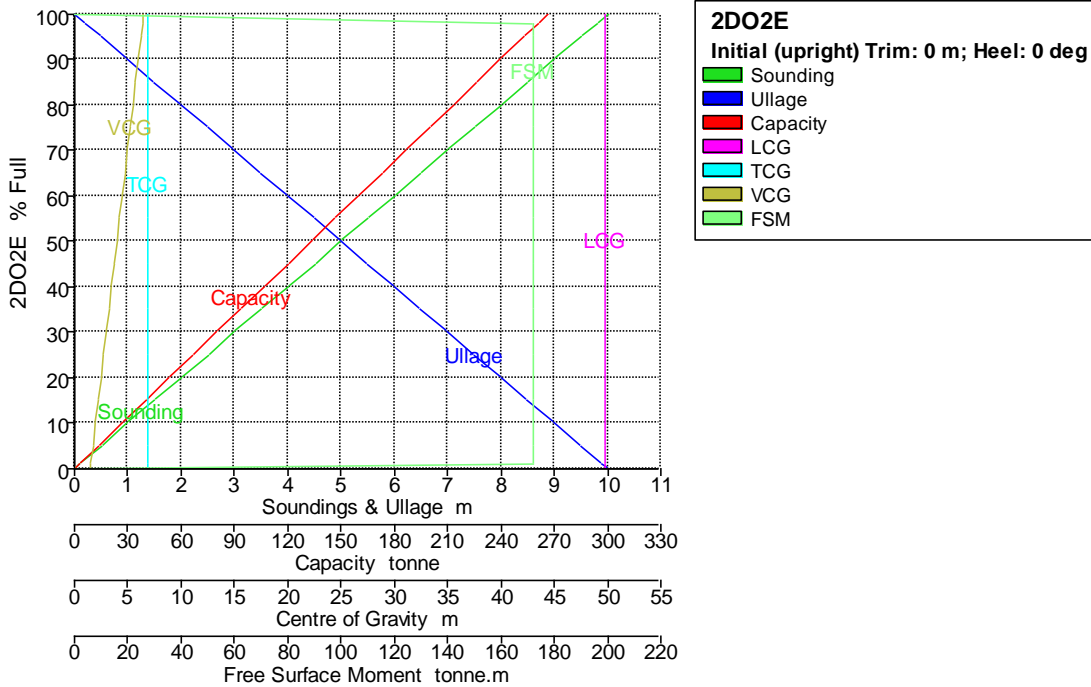
Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DO1B	10,000	0,000	100,000	317,124	266,384	46,200	-6,905	6,500	0,000
	9,800	0,200	98,000	310,782	261,056	46,200	-6,905	6,400	172,258
	9,790	0,210	97,900	310,464	260,790	46,200	-6,905	6,395	172,258
	9,500	0,500	95,000	301,268	253,065	46,200	-6,905	6,250	172,258
	9,000	1,000	90,000	285,412	239,746	46,200	-6,905	6,000	172,258
	8,500	1,500	85,000	269,555	226,427	46,200	-6,905	5,750	172,258
	8,000	2,000	80,000	253,699	213,107	46,200	-6,905	5,500	172,258
	7,500	2,500	75,000	237,843	199,788	46,200	-6,905	5,250	172,258
	7,000	3,000	70,000	221,987	186,469	46,200	-6,905	5,000	172,258
	6,500	3,500	65,000	206,131	173,150	46,200	-6,905	4,750	172,258
	6,000	4,000	60,000	190,274	159,830	46,200	-6,905	4,500	172,258
	5,500	4,500	55,000	174,418	146,511	46,200	-6,905	4,250	172,258
	5,000	5,000	50,000	158,562	133,192	46,200	-6,905	4,000	172,258
	4,500	5,500	45,000	142,706	119,873	46,200	-6,905	3,750	172,258
	4,000	6,000	40,000	126,850	106,554	46,200	-6,905	3,500	172,258
	3,500	6,500	35,000	110,993	93,234	46,200	-6,905	3,250	172,258
	3,000	7,000	30,000	95,137	79,915	46,200	-6,905	3,000	172,258
	2,500	7,500	25,000	79,281	66,596	46,200	-6,905	2,750	172,258
	2,000	8,000	20,000	63,425	53,277	46,200	-6,905	2,500	172,258
	1,500	8,500	15,000	47,569	39,958	46,200	-6,905	2,250	172,258
	1,000	9,000	10,000	31,712	26,638	46,200	-6,905	2,000	172,258
	0,500	9,500	5,000	15,856	13,319	46,200	-6,905	1,750	172,258
	0,100	9,900	1,000	3,171	2,664	46,200	-6,905	1,550	172,258
	0,000	10,000	0,000	0,000	0,000	46,200	-6,905	1,500	0,000

Tank Calibrations - 2DO2E

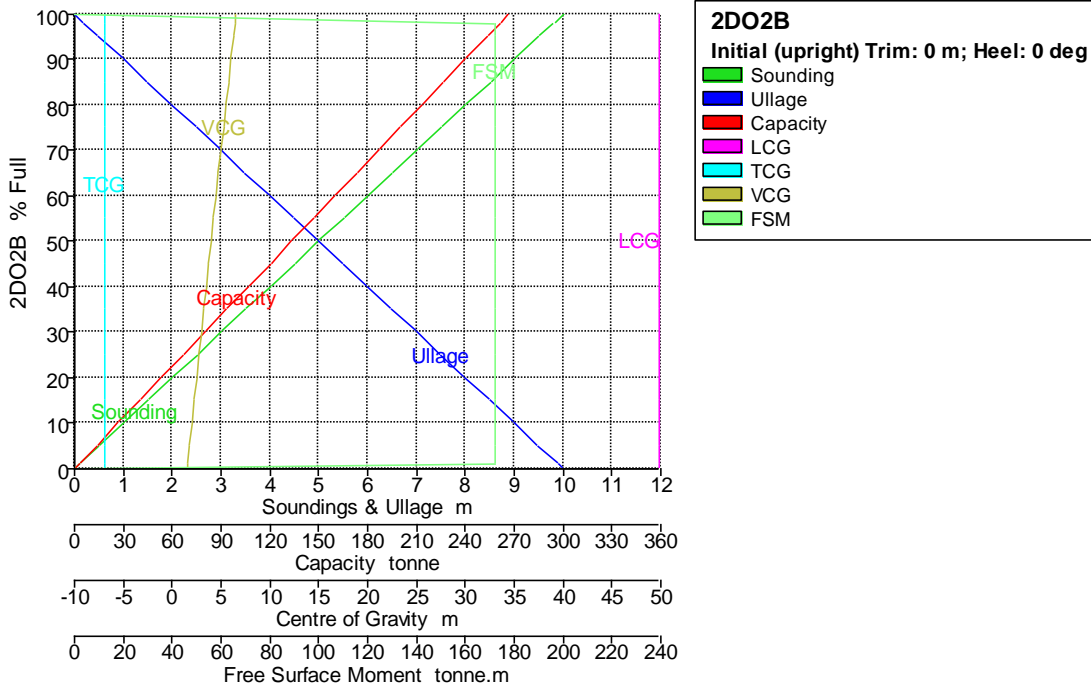
Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DO2E	10,000	0,000	100,000	317,124	266,384	49,800	6,905	6,500	0,000
	9,800	0,200	98,000	310,782	261,056	49,800	6,905	6,400	172,258
	9,790	0,210	97,900	310,464	260,790	49,800	6,905	6,395	172,258
	9,500	0,500	95,000	301,268	253,065	49,800	6,905	6,250	172,258
	9,000	1,000	90,000	285,412	239,746	49,800	6,905	6,000	172,258
	8,500	1,500	85,000	269,555	226,427	49,800	6,905	5,750	172,258
	8,000	2,000	80,000	253,699	213,107	49,800	6,905	5,500	172,258
	7,500	2,500	75,000	237,843	199,788	49,800	6,905	5,250	172,258
	7,000	3,000	70,000	221,987	186,469	49,800	6,905	5,000	172,258
	6,500	3,500	65,000	206,131	173,150	49,800	6,905	4,750	172,258
	6,000	4,000	60,000	190,274	159,830	49,800	6,905	4,500	172,258
	5,500	4,500	55,000	174,418	146,511	49,800	6,905	4,250	172,258
	5,000	5,000	50,000	158,562	133,192	49,800	6,905	4,000	172,258
	4,500	5,500	45,000	142,706	119,873	49,800	6,905	3,750	172,258
	4,000	6,000	40,000	126,850	106,554	49,800	6,905	3,500	172,258
	3,500	6,500	35,000	110,993	93,234	49,800	6,905	3,250	172,258
	3,000	7,000	30,000	95,137	79,915	49,800	6,905	3,000	172,258
	2,500	7,500	25,000	79,281	66,596	49,800	6,905	2,750	172,258
	2,000	8,000	20,000	63,425	53,277	49,800	6,905	2,500	172,258
	1,500	8,500	15,000	47,569	39,958	49,800	6,905	2,250	172,258
	1,000	9,000	10,000	31,712	26,638	49,800	6,905	2,000	172,258
	0,500	9,500	5,000	15,856	13,319	49,800	6,905	1,750	172,258
	0,100	9,900	1,000	3,171	2,664	49,800	6,905	1,550	172,258
	0,000	10,000	0,000	0,000	0,000	49,800	6,905	1,500	0,000

Tank Calibrations - 2DO2B

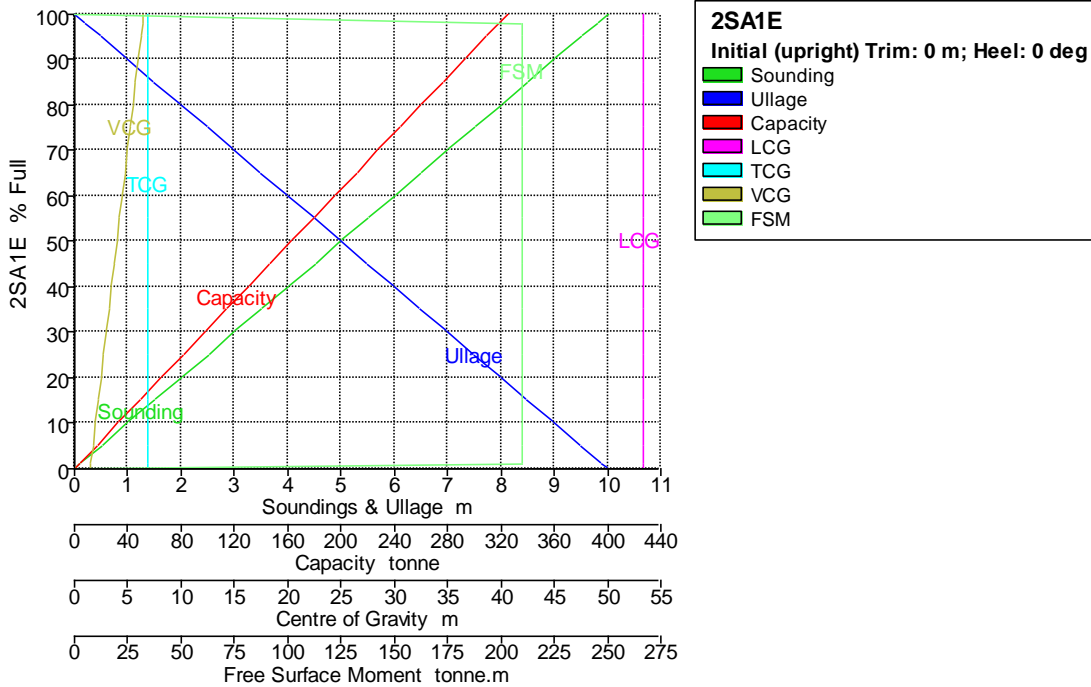
Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DO2B	10,000	0,000	100,000	317,124	266,384	49,800	-6,905	6,500	0,000
	9,800	0,200	98,000	310,782	261,056	49,800	-6,905	6,400	172,258
	9,790	0,210	97,900	310,464	260,790	49,800	-6,905	6,395	172,258
	9,500	0,500	95,000	301,268	253,065	49,800	-6,905	6,250	172,258
	9,000	1,000	90,000	285,412	239,746	49,800	-6,905	6,000	172,258
	8,500	1,500	85,000	269,555	226,427	49,800	-6,905	5,750	172,258
	8,000	2,000	80,000	253,699	213,107	49,800	-6,905	5,500	172,258
	7,500	2,500	75,000	237,843	199,788	49,800	-6,905	5,250	172,258
	7,000	3,000	70,000	221,987	186,469	49,800	-6,905	5,000	172,258
	6,500	3,500	65,000	206,131	173,150	49,800	-6,905	4,750	172,258
	6,000	4,000	60,000	190,274	159,830	49,800	-6,905	4,500	172,258
	5,500	4,500	55,000	174,418	146,511	49,800	-6,905	4,250	172,258
	5,000	5,000	50,000	158,562	133,192	49,800	-6,905	4,000	172,258
	4,500	5,500	45,000	142,706	119,873	49,800	-6,905	3,750	172,258
	4,000	6,000	40,000	126,850	106,554	49,800	-6,905	3,500	172,258
	3,500	6,500	35,000	110,993	93,234	49,800	-6,905	3,250	172,258
	3,000	7,000	30,000	95,137	79,915	49,800	-6,905	3,000	172,258
	2,500	7,500	25,000	79,281	66,596	49,800	-6,905	2,750	172,258
	2,000	8,000	20,000	63,425	53,277	49,800	-6,905	2,500	172,258
	1,500	8,500	15,000	47,569	39,958	49,800	-6,905	2,250	172,258
	1,000	9,000	10,000	31,712	26,638	49,800	-6,905	2,000	172,258
	0,500	9,500	5,000	15,856	13,319	49,800	-6,905	1,750	172,258
	0,100	9,900	1,000	3,171	2,664	49,800	-6,905	1,550	172,258
	0,000	10,000	0,000	0,000	0,000	49,800	-6,905	1,500	0,000

Tank Calibrations - 2SA1E

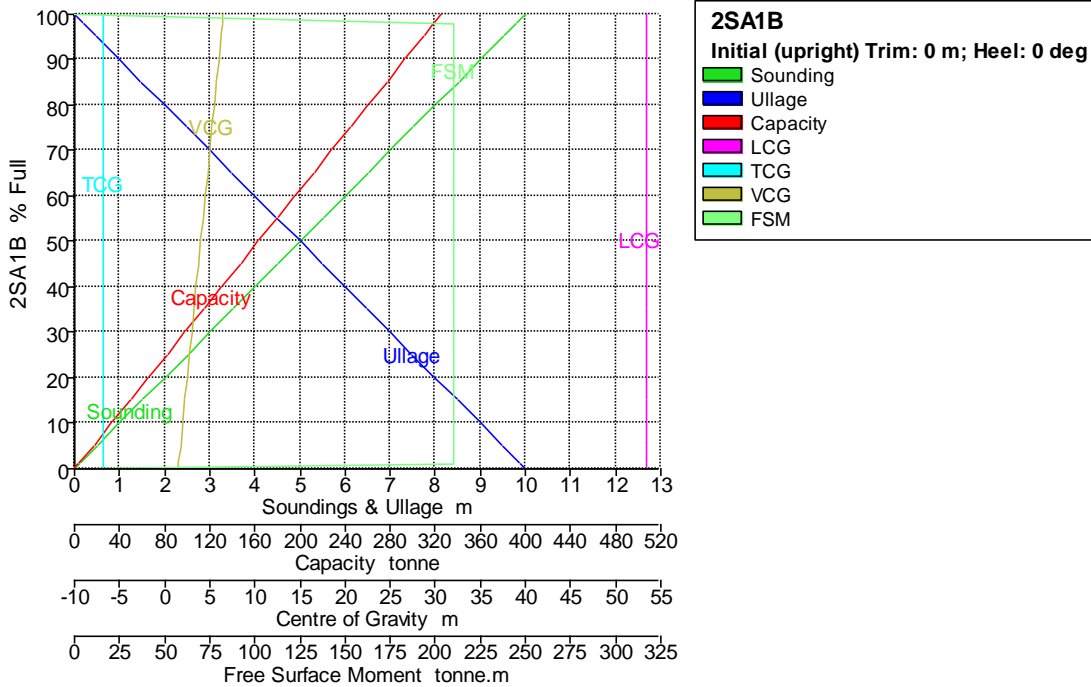
Fluid Type = BRINE Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2SA1E	10,000	0,000	100,000	317,124	325,052	53,400	6,905	6,500	0,000
	9,800	0,200	98,000	310,782	318,551	53,400	6,905	6,400	210,196
	9,790	0,210	97,900	310,464	318,226	53,400	6,905	6,395	210,196
	9,500	0,500	95,000	301,268	308,799	53,400	6,905	6,250	210,196
	9,000	1,000	90,000	285,412	292,547	53,400	6,905	6,000	210,196
	8,500	1,500	85,000	269,555	276,294	53,400	6,905	5,750	210,196
	8,000	2,000	80,000	253,699	260,042	53,400	6,905	5,500	210,196
	7,500	2,500	75,000	237,843	243,789	53,400	6,905	5,250	210,196
	7,000	3,000	70,000	221,987	227,536	53,400	6,905	5,000	210,196
	6,500	3,500	65,000	206,131	211,284	53,400	6,905	4,750	210,196
	6,000	4,000	60,000	190,274	195,031	53,400	6,905	4,500	210,196
	5,500	4,500	55,000	174,418	178,779	53,400	6,905	4,250	210,196
	5,000	5,000	50,000	158,562	162,526	53,400	6,905	4,000	210,196
	4,500	5,500	45,000	142,706	146,273	53,400	6,905	3,750	210,196
	4,000	6,000	40,000	126,850	130,021	53,400	6,905	3,500	210,196
	3,500	6,500	35,000	110,993	113,768	53,400	6,905	3,250	210,196
	3,000	7,000	30,000	95,137	97,516	53,400	6,905	3,000	210,196
	2,500	7,500	25,000	79,281	81,263	53,400	6,905	2,750	210,196
	2,000	8,000	20,000	63,425	65,010	53,400	6,905	2,500	210,196
	1,500	8,500	15,000	47,569	48,758	53,400	6,905	2,250	210,196
	1,000	9,000	10,000	31,712	32,505	53,400	6,905	2,000	210,196
	0,500	9,500	5,000	15,856	16,253	53,400	6,905	1,750	210,196
	0,100	9,900	1,000	3,171	3,251	53,400	6,905	1,550	210,196
	0,000	10,000	0,000	0,000	0,000	53,400	6,905	1,500	0,000

Tank Calibrations - 2SA1B

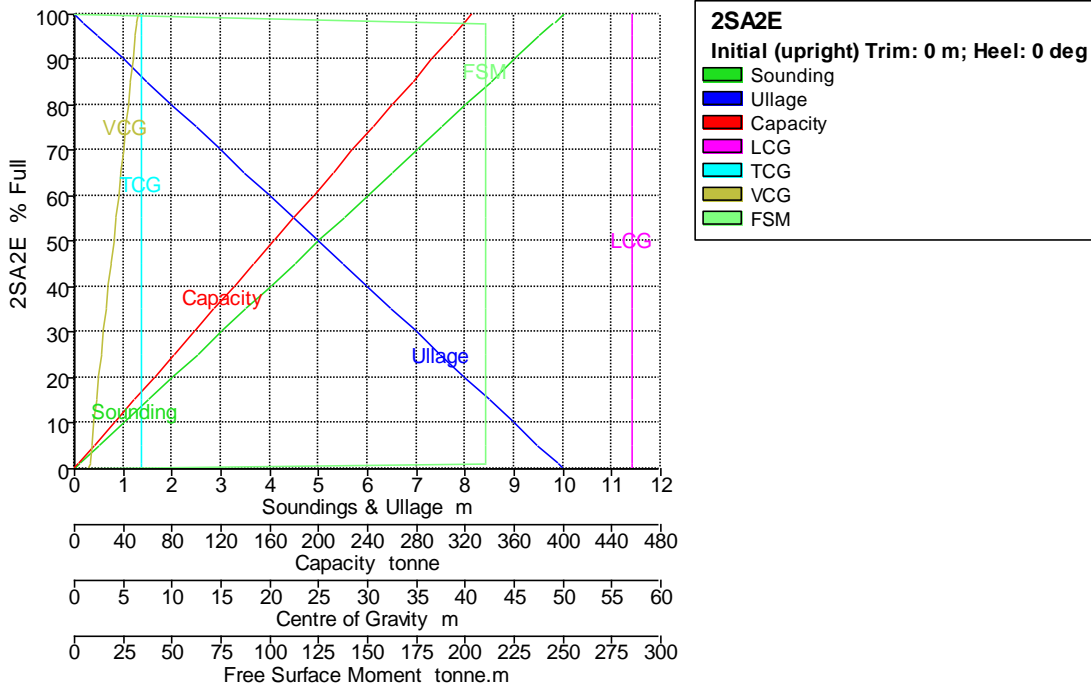
Fluid Type = BRINE Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2SA1B	10,000	0,000	100,000	317,124	325,052	53,400	-6,905	6,500	0,000
	9,800	0,200	98,000	310,782	318,551	53,400	-6,905	6,400	210,196
	9,790	0,210	97,900	310,464	318,226	53,400	-6,905	6,395	210,196
	9,500	0,500	95,000	301,268	308,799	53,400	-6,905	6,250	210,196
	9,000	1,000	90,000	285,412	292,547	53,400	-6,905	6,000	210,196
	8,500	1,500	85,000	269,555	276,294	53,400	-6,905	5,750	210,196
	8,000	2,000	80,000	253,699	260,042	53,400	-6,905	5,500	210,196
	7,500	2,500	75,000	237,843	243,789	53,400	-6,905	5,250	210,196
	7,000	3,000	70,000	221,987	227,536	53,400	-6,905	5,000	210,196
	6,500	3,500	65,000	206,131	211,284	53,400	-6,905	4,750	210,196
	6,000	4,000	60,000	190,274	195,031	53,400	-6,905	4,500	210,196
	5,500	4,500	55,000	174,418	178,779	53,400	-6,905	4,250	210,196
	5,000	5,000	50,000	158,562	162,526	53,400	-6,905	4,000	210,196
	4,500	5,500	45,000	142,706	146,273	53,400	-6,905	3,750	210,196
	4,000	6,000	40,000	126,850	130,021	53,400	-6,905	3,500	210,196
	3,500	6,500	35,000	110,993	113,768	53,400	-6,905	3,250	210,196
	3,000	7,000	30,000	95,137	97,516	53,400	-6,905	3,000	210,196
	2,500	7,500	25,000	79,281	81,263	53,400	-6,905	2,750	210,196
	2,000	8,000	20,000	63,425	65,010	53,400	-6,905	2,500	210,196
	1,500	8,500	15,000	47,569	48,758	53,400	-6,905	2,250	210,196
	1,000	9,000	10,000	31,712	32,505	53,400	-6,905	2,000	210,196
	0,500	9,500	5,000	15,856	16,253	53,400	-6,905	1,750	210,196
	0,100	9,900	1,000	3,171	3,251	53,400	-6,905	1,550	210,196
	0,000	10,000	0,000	0,000	0,000	53,400	-6,905	1,500	0,000

Tank Calibrations - 2SA2E

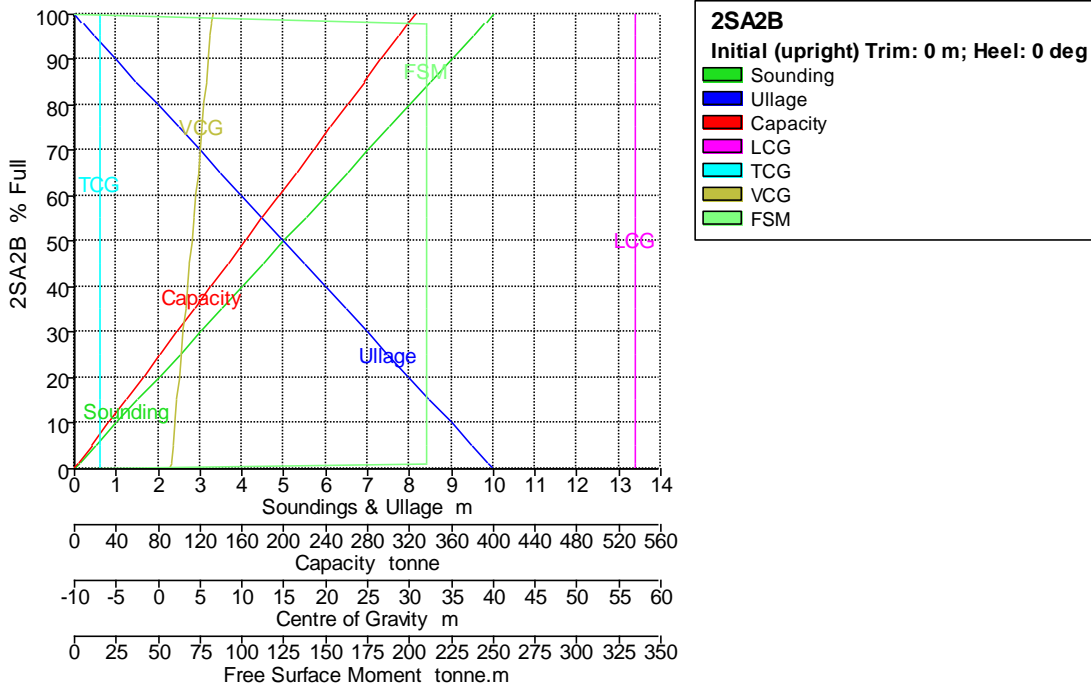
Fluid Type = BRINE Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2SA2E	10,000	0,000	100,000	317,124	325,052	57,000	6,905	6,500	0,000
	9,800	0,200	98,000	310,782	318,551	57,000	6,905	6,400	210,196
	9,790	0,210	97,900	310,464	318,226	57,000	6,905	6,395	210,196
	9,500	0,500	95,000	301,268	308,800	57,000	6,905	6,250	210,196
	9,000	1,000	90,000	285,412	292,547	57,000	6,905	6,000	210,196
	8,500	1,500	85,000	269,555	276,294	57,000	6,905	5,750	210,196
	8,000	2,000	80,000	253,699	260,042	57,000	6,905	5,500	210,196
	7,500	2,500	75,000	237,843	243,789	57,000	6,905	5,250	210,196
	7,000	3,000	70,000	221,987	227,536	57,000	6,905	5,000	210,196
	6,500	3,500	65,000	206,131	211,284	57,000	6,905	4,750	210,196
	6,000	4,000	60,000	190,274	195,031	57,000	6,905	4,500	210,196
	5,500	4,500	55,000	174,418	178,779	57,000	6,905	4,250	210,196
	5,000	5,000	50,000	158,562	162,526	57,000	6,905	4,000	210,196
	4,500	5,500	45,000	142,706	146,273	57,000	6,905	3,750	210,196
	4,000	6,000	40,000	126,850	130,021	57,000	6,905	3,500	210,196
	3,500	6,500	35,000	110,993	113,768	57,000	6,905	3,250	210,196
	3,000	7,000	30,000	95,137	97,516	57,000	6,905	3,000	210,196
	2,500	7,500	25,000	79,281	81,263	57,000	6,905	2,750	210,196
	2,000	8,000	20,000	63,425	65,010	57,000	6,905	2,500	210,196
	1,500	8,500	15,000	47,569	48,758	57,000	6,905	2,250	210,196
	1,000	9,000	10,000	31,712	32,505	57,000	6,905	2,000	210,196
	0,500	9,500	5,000	15,856	16,253	57,000	6,905	1,750	210,196
	0,100	9,900	1,000	3,171	3,251	57,000	6,905	1,550	210,196
	0,000	10,000	0,000	0,000	0,000	57,000	6,905	1,500	0,000

Tank Calibrations - 2SA2B

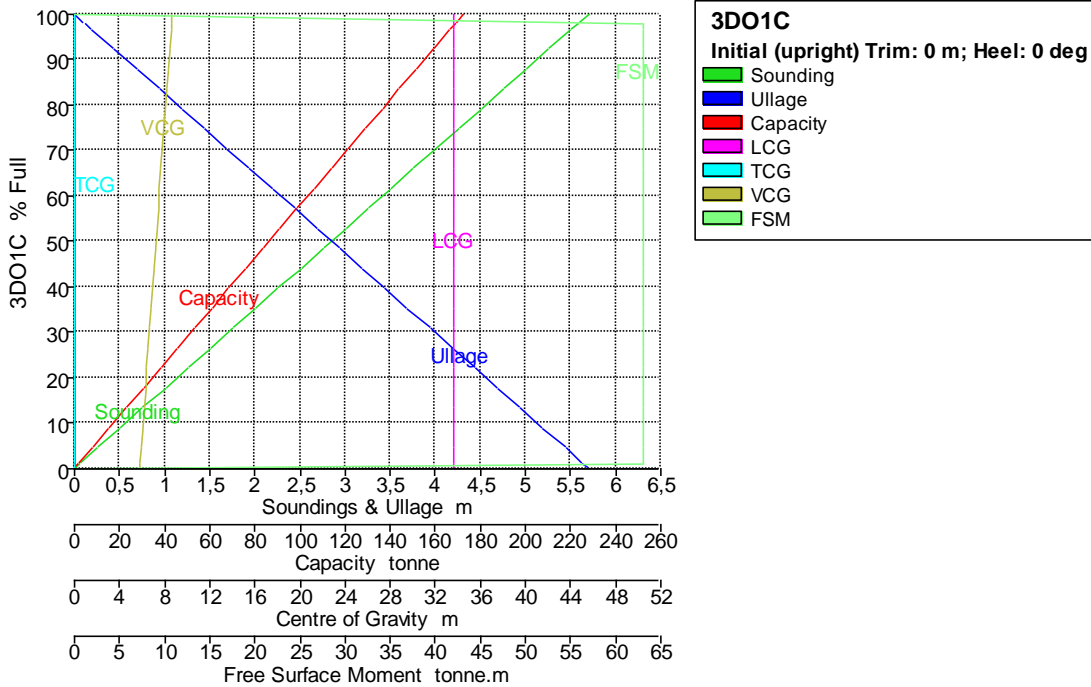
Fluid Type = BRINE Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2SA2B	10,000	0,000	100,000	317,124	325,052	57,000	-6,905	6,500	0,000
	9,800	0,200	98,000	310,782	318,551	57,000	-6,905	6,400	210,196
	9,790	0,210	97,900	310,464	318,226	57,000	-6,905	6,395	210,196
	9,500	0,500	95,000	301,268	308,800	57,000	-6,905	6,250	210,196
	9,000	1,000	90,000	285,412	292,547	57,000	-6,905	6,000	210,196
	8,500	1,500	85,000	269,555	276,294	57,000	-6,905	5,750	210,196
	8,000	2,000	80,000	253,699	260,042	57,000	-6,905	5,500	210,196
	7,500	2,500	75,000	237,843	243,789	57,000	-6,905	5,250	210,196
	7,000	3,000	70,000	221,987	227,536	57,000	-6,905	5,000	210,196
	6,500	3,500	65,000	206,131	211,284	57,000	-6,905	4,750	210,196
	6,000	4,000	60,000	190,274	195,031	57,000	-6,905	4,500	210,196
	5,500	4,500	55,000	174,418	178,779	57,000	-6,905	4,250	210,196
	5,000	5,000	50,000	158,562	162,526	57,000	-6,905	4,000	210,196
	4,500	5,500	45,000	142,706	146,273	57,000	-6,905	3,750	210,196
	4,000	6,000	40,000	126,850	130,021	57,000	-6,905	3,500	210,196
	3,500	6,500	35,000	110,993	113,768	57,000	-6,905	3,250	210,196
	3,000	7,000	30,000	95,137	97,516	57,000	-6,905	3,000	210,196
	2,500	7,500	25,000	79,281	81,263	57,000	-6,905	2,750	210,196
	2,000	8,000	20,000	63,425	65,010	57,000	-6,905	2,500	210,196
	1,500	8,500	15,000	47,569	48,758	57,000	-6,905	2,250	210,196
	1,000	9,000	10,000	31,712	32,505	57,000	-6,905	2,000	210,196
	0,500	9,500	5,000	15,856	16,253	57,000	-6,905	1,750	210,196
	0,100	9,900	1,000	3,171	3,251	57,000	-6,905	1,550	210,196
	0,000	10,000	0,000	0,000	0,000	57,000	-6,905	1,500	0,000

Tank Calibrations - 3D01C

Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



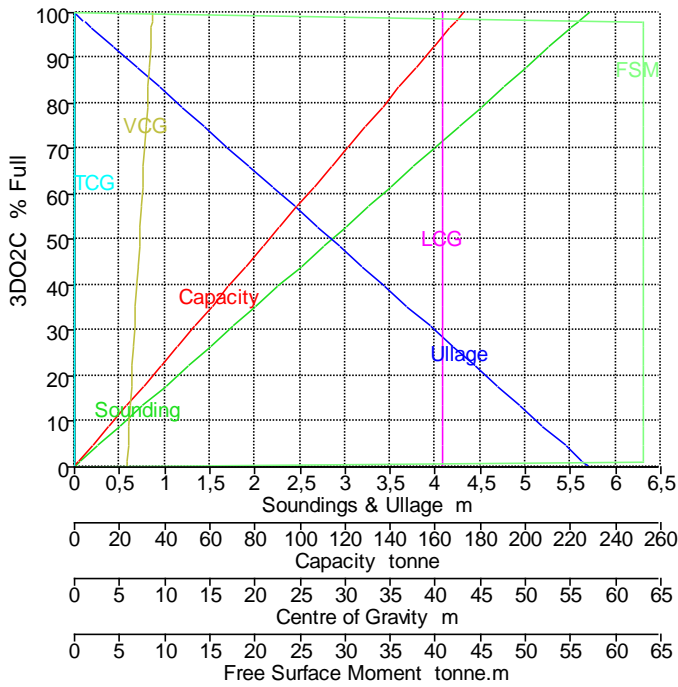
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3DO1C	5,700	0,000	100,000	205,200	172,368	33,600	0,000	8,650	0,000
	5,586	0,114	98,000	201,096	168,921	33,600	0,000	8,593	63,000
	5,580	0,120	97,900	200,891	168,748	33,600	0,000	8,590	63,000
	5,500	0,200	96,491	198,000	166,320	33,600	0,000	8,550	63,000
	5,250	0,450	92,105	189,000	158,760	33,600	0,000	8,425	63,000
	5,000	0,700	87,719	180,000	151,200	33,600	0,000	8,300	63,000
	4,750	0,950	83,333	171,000	143,640	33,600	0,000	8,175	63,000
	4,500	1,200	78,947	162,000	136,080	33,600	0,000	8,050	63,000
	4,250	1,450	74,561	153,000	128,520	33,600	0,000	7,925	63,000
	4,000	1,700	70,175	144,000	120,960	33,600	0,000	7,800	63,000
	3,750	1,950	65,789	135,000	113,400	33,600	0,000	7,675	63,000
	3,500	2,200	61,404	126,000	105,840	33,600	0,000	7,550	63,000
	3,250	2,450	57,018	117,000	98,280	33,600	0,000	7,425	63,000
	3,000	2,700	52,632	108,000	90,720	33,600	0,000	7,300	63,000
	2,750	2,950	48,246	99,000	83,160	33,600	0,000	7,175	63,000
	2,500	3,200	43,860	90,000	75,600	33,600	0,000	7,050	63,000
	2,250	3,450	39,474	81,000	68,040	33,600	0,000	6,925	63,000
	2,000	3,700	35,088	72,000	60,480	33,600	0,000	6,800	63,000
	1,750	3,950	30,702	63,000	52,920	33,600	0,000	6,675	63,000
	1,500	4,200	26,316	54,000	45,360	33,600	0,000	6,550	63,000
	1,250	4,450	21,930	45,000	37,800	33,600	0,000	6,425	63,000
	1,000	4,700	17,544	36,000	30,240	33,600	0,000	6,300	63,000
	0,750	4,950	13,158	27,000	22,680	33,600	0,000	6,175	63,000
	0,500	5,200	8,772	18,000	15,120	33,600	0,000	6,050	63,000
	0,250	5,450	4,386	9,000	7,560	33,600	0,000	5,925	63,000
	0,057	5,643	1,000	2,052	1,724	33,600	0,000	5,829	63,000
	0,000	5,700	0,000	0,000	0,000	33,600	0,000	5,800	0,000

Tank Calibrations - 3DO2C

Fluid Type = Diesel OIL Specific gravity = 0,84

Permeability = 100 %

Trim = 0 m (+ve by stern); Heel = 0 deg



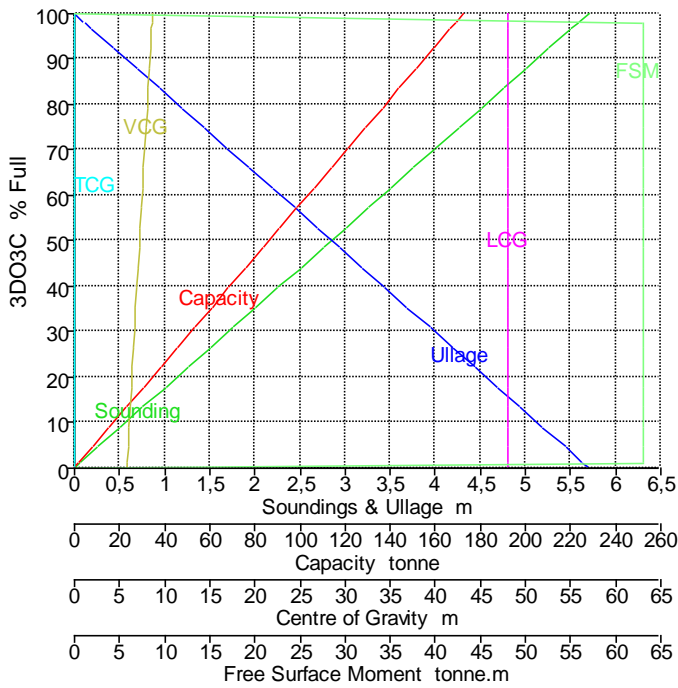
3DO2C
 Initial (upright) Trim: 0 m; Heel: 0 deg

- Sounding
- Ullage
- Capacity
- LCG
- TCG
- VCG
- FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3DO2C	5,700	0,000	100,000	205,200	172,368	40,800	0,000	8,650	0,000
	5,586	0,114	98,000	201,096	168,921	40,800	0,000	8,593	63,000
	5,580	0,120	97,900	200,891	168,748	40,800	0,000	8,590	63,000
	5,500	0,200	96,491	198,000	166,320	40,800	0,000	8,550	63,000
	5,250	0,450	92,105	189,000	158,760	40,800	0,000	8,425	63,000
	5,000	0,700	87,719	180,000	151,200	40,800	0,000	8,300	63,000
	4,750	0,950	83,333	171,000	143,640	40,800	0,000	8,175	63,000
	4,500	1,200	78,947	162,000	136,080	40,800	0,000	8,050	63,000
	4,250	1,450	74,561	153,000	128,520	40,800	0,000	7,925	63,000
	4,000	1,700	70,175	144,000	120,960	40,800	0,000	7,800	63,000
	3,750	1,950	65,789	135,000	113,400	40,800	0,000	7,675	63,000
	3,500	2,200	61,404	126,000	105,840	40,800	0,000	7,550	63,000
	3,250	2,450	57,018	117,000	98,280	40,800	0,000	7,425	63,000
	3,000	2,700	52,632	108,000	90,720	40,800	0,000	7,300	63,000
	2,750	2,950	48,246	99,000	83,160	40,800	0,000	7,175	63,000
	2,500	3,200	43,860	90,000	75,600	40,800	0,000	7,050	63,000
	2,250	3,450	39,474	81,000	68,040	40,800	0,000	6,925	63,000
	2,000	3,700	35,088	72,000	60,480	40,800	0,000	6,800	63,000
	1,750	3,950	30,702	63,000	52,920	40,800	0,000	6,675	63,000
	1,500	4,200	26,316	54,000	45,360	40,800	0,000	6,550	63,000
	1,250	4,450	21,930	45,000	37,800	40,800	0,000	6,425	63,000
	1,000	4,700	17,544	36,000	30,240	40,800	0,000	6,300	63,000
	0,750	4,950	13,158	27,000	22,680	40,800	0,000	6,175	63,000
	0,500	5,200	8,772	18,000	15,120	40,800	0,000	6,050	63,000
	0,250	5,450	4,386	9,000	7,560	40,800	0,000	5,925	63,000
	0,057	5,643	1,000	2,052	1,724	40,800	0,000	5,829	63,000
	0,000	5,700	0,000	0,000	0,000	40,800	0,000	5,800	0,000

Tank Calibrations - 3DO3C

Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



3DO3C
 Initial (upright) Trim: 0 m; Heel: 0 deg

- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

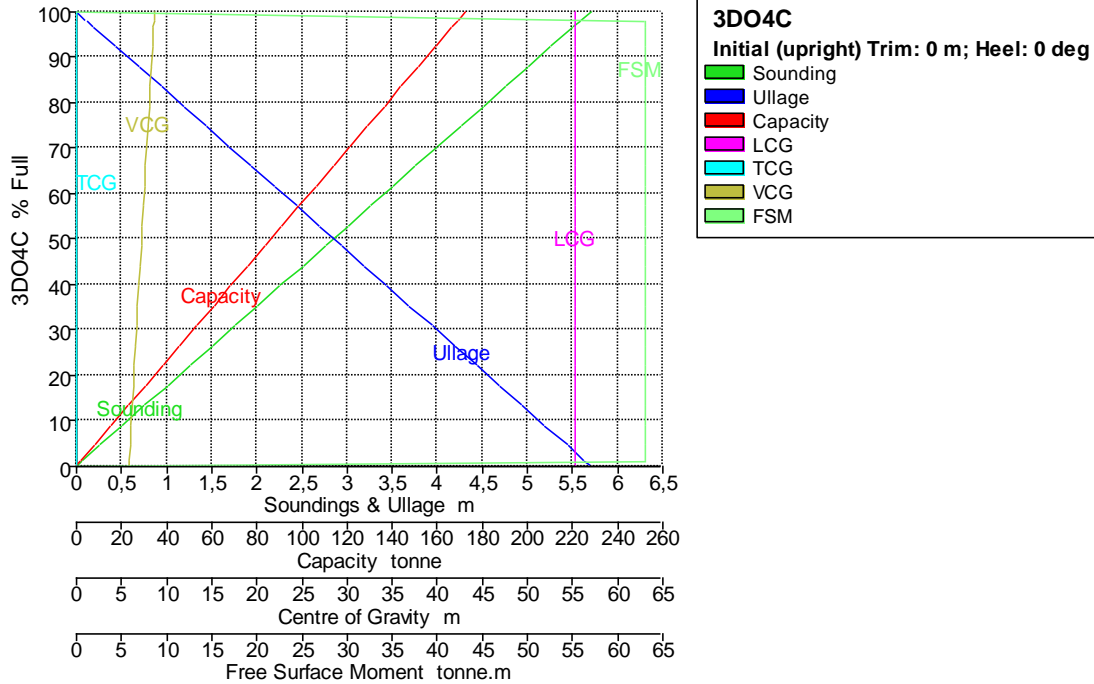
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3DO3C	5,700	0,000	100,000	205,200	172,368	48,000	0,000	8,650	0,000
	5,586	0,114	98,000	201,096	168,921	48,000	0,000	8,593	63,000
	5,580	0,120	97,900	200,891	168,748	48,000	0,000	8,590	63,000
	5,500	0,200	96,491	198,000	166,320	48,000	0,000	8,550	63,000
	5,250	0,450	92,105	189,000	158,760	48,000	0,000	8,425	63,000
	5,000	0,700	87,719	180,000	151,200	48,000	0,000	8,300	63,000
	4,750	0,950	83,333	171,000	143,640	48,000	0,000	8,175	63,000
	4,500	1,200	78,947	162,000	136,080	48,000	0,000	8,050	63,000
	4,250	1,450	74,561	153,000	128,520	48,000	0,000	7,925	63,000
	4,000	1,700	70,175	144,000	120,960	48,000	0,000	7,800	63,000
	3,750	1,950	65,789	135,000	113,400	48,000	0,000	7,675	63,000
	3,500	2,200	61,404	126,000	105,840	48,000	0,000	7,550	63,000
	3,250	2,450	57,018	117,000	98,280	48,000	0,000	7,425	63,000
	3,000	2,700	52,632	108,000	90,720	48,000	0,000	7,300	63,000
	2,750	2,950	48,246	99,000	83,160	48,000	0,000	7,175	63,000
	2,500	3,200	43,860	90,000	75,600	48,000	0,000	7,050	63,000
	2,250	3,450	39,474	81,000	68,040	48,000	0,000	6,925	63,000
	2,000	3,700	35,088	72,000	60,480	48,000	0,000	6,800	63,000
	1,750	3,950	30,702	63,000	52,920	48,000	0,000	6,675	63,000
	1,500	4,200	26,316	54,000	45,360	48,000	0,000	6,550	63,000
	1,250	4,450	21,930	45,000	37,800	48,000	0,000	6,425	63,000
	1,000	4,700	17,544	36,000	30,240	48,000	0,000	6,300	63,000
	0,750	4,950	13,158	27,000	22,680	48,000	0,000	6,175	63,000
	0,500	5,200	8,772	18,000	15,120	48,000	0,000	6,050	63,000
	0,250	5,450	4,386	9,000	7,560	48,000	0,000	5,925	63,000
	0,057	5,643	1,000	2,052	1,724	48,000	0,000	5,829	63,000
	0,000	5,700	0,000	0,000	0,000	48,000	0,000	5,800	0,000

Tank Calibrations - 3DO4C

Fluid Type = Diesel OIL Specific gravity = 0,84

Permeability = 100 %

Trim = 0 m (+ve by stern); Heel = 0 deg

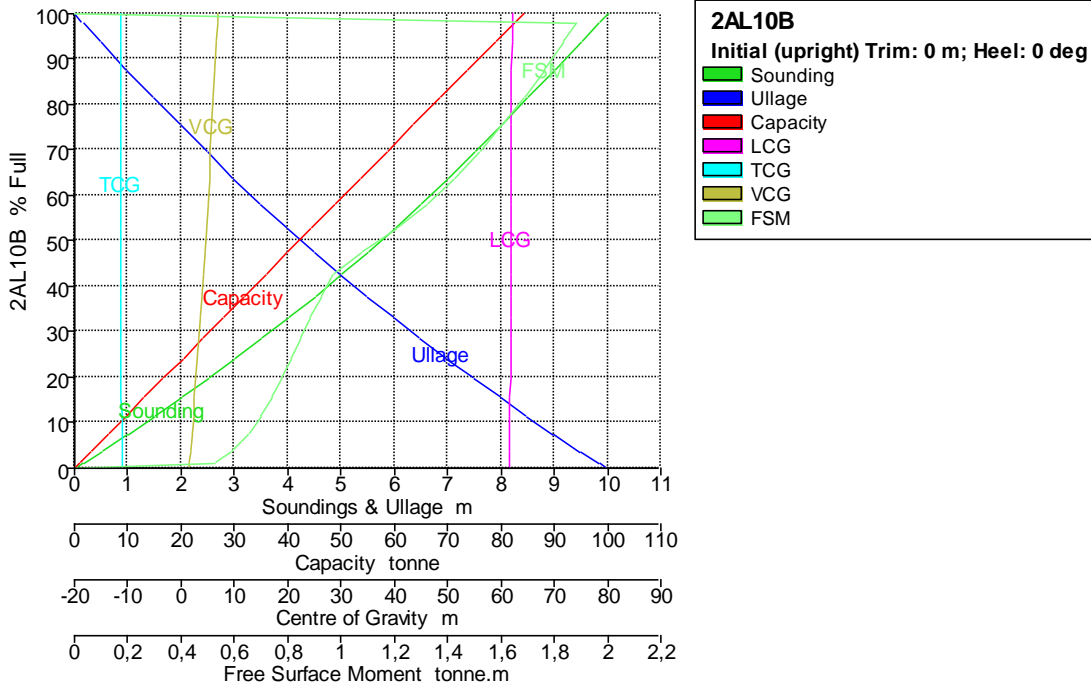


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3DO4C	5,700	0,000	100,000	205,200	172,368	55,200	0,000	8,650	0,000
	5,586	0,114	98,000	201,096	168,921	55,200	0,000	8,593	63,000
	5,580	0,120	97,900	200,891	168,748	55,200	0,000	8,590	63,000
	5,500	0,200	96,491	198,000	166,320	55,200	0,000	8,550	63,000
	5,250	0,450	92,105	189,000	158,760	55,200	0,000	8,425	63,000
	5,000	0,700	87,719	180,000	151,200	55,200	0,000	8,300	63,000
	4,750	0,950	83,333	171,000	143,640	55,200	0,000	8,175	63,000
	4,500	1,200	78,947	162,000	136,080	55,200	0,000	8,050	63,000
	4,250	1,450	74,561	153,000	128,520	55,200	0,000	7,925	63,000
	4,000	1,700	70,175	144,000	120,960	55,200	0,000	7,800	63,000
	3,750	1,950	65,789	135,000	113,400	55,200	0,000	7,675	63,000
	3,500	2,200	61,404	126,000	105,840	55,200	0,000	7,550	63,000
	3,250	2,450	57,018	117,000	98,280	55,200	0,000	7,425	63,000
	3,000	2,700	52,632	108,000	90,720	55,200	0,000	7,300	63,000
	2,750	2,950	48,246	99,000	83,160	55,200	0,000	7,175	63,000
	2,500	3,200	43,860	90,000	75,600	55,200	0,000	7,050	63,000
	2,250	3,450	39,474	81,000	68,040	55,200	0,000	6,925	63,000
	2,000	3,700	35,088	72,000	60,480	55,200	0,000	6,800	63,000
	1,750	3,950	30,702	63,000	52,920	55,200	0,000	6,675	63,000
	1,500	4,200	26,316	54,000	45,360	55,200	0,000	6,550	63,000
	1,250	4,450	21,930	45,000	37,800	55,200	0,000	6,425	63,000
	1,000	4,700	17,544	36,000	30,240	55,200	0,000	6,300	63,000
	0,750	4,950	13,158	27,000	22,680	55,200	0,000	6,175	63,000
	0,500	5,200	8,772	18,000	15,120	55,200	0,000	6,050	63,000
	0,250	5,450	4,386	9,000	7,560	55,200	0,000	5,925	63,000
	0,057	5,643	1,000	2,052	1,724	55,200	0,000	5,829	63,000

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,000	5,700	0,000	0,000	0,000	55,200	0,000	5,800	0,000

Tank Calibrations - 2AL10B

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL10B	10,000	0,000	100,000	82,201	84,256	62,076	-11,305	6,996	0,000
	9,843	0,157	98,000	80,557	82,571	62,071	-11,302	6,906	1,885
	9,835	0,165	97,900	80,475	82,487	62,071	-11,302	6,901	1,884
	9,500	0,500	93,674	77,002	78,927	62,060	-11,297	6,709	1,836
	9,000	1,000	87,439	71,876	73,672	62,042	-11,288	6,420	1,762
	8,500	1,500	81,301	66,830	68,501	62,024	-11,280	6,131	1,684
	8,000	2,000	75,270	61,873	63,420	62,004	-11,271	5,841	1,603
	7,500	2,500	69,360	57,015	58,440	61,983	-11,261	5,551	1,516
	7,000	3,000	63,584	52,267	53,574	61,961	-11,252	5,260	1,423
	6,500	3,500	57,964	47,647	48,838	61,938	-11,243	4,970	1,322
	6,000	4,000	52,528	43,179	44,258	61,915	-11,234	4,682	1,209
	5,500	4,500	47,324	38,901	39,874	61,893	-11,226	4,399	1,076
	5,000	5,000	42,415	34,866	35,737	61,874	-11,220	4,127	0,966
	4,500	5,500	37,651	30,950	31,723	61,856	-11,215	3,858	0,926
	4,000	6,000	32,991	27,119	27,797	61,838	-11,209	3,591	0,887
	3,500	6,500	28,434	23,373	23,958	61,818	-11,204	3,325	0,850
	3,000	7,000	23,982	19,714	20,206	61,797	-11,198	3,060	0,813
	2,500	7,500	19,637	16,142	16,546	61,774	-11,192	2,796	0,777
	2,000	8,000	15,404	12,662	12,979	61,749	-11,185	2,534	0,740
	1,500	8,500	11,292	9,282	9,514	61,721	-11,178	2,272	0,700
	1,000	9,000	7,320	6,017	6,168	61,687	-11,169	2,012	0,652

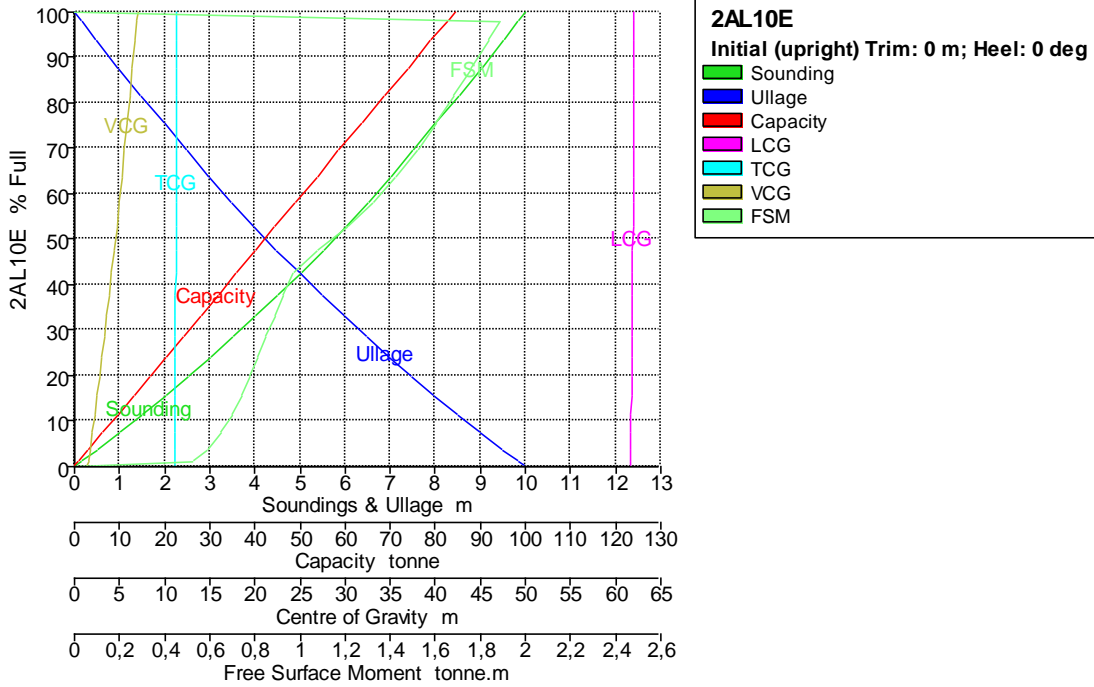
Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,500	9,500	3,526	2,898	2,971	61,642	-11,157	1,754	0,588
	0,147	9,853	1,000	0,822	0,843	61,598	-11,147	1,574	0,523
	0,000	10,000	0,000	0,000	0,000	61,576	-11,142	1,500	0,000

Tank Calibrations - 2AL10E

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = 0 m (+ve by stern); Heel = 0 deg

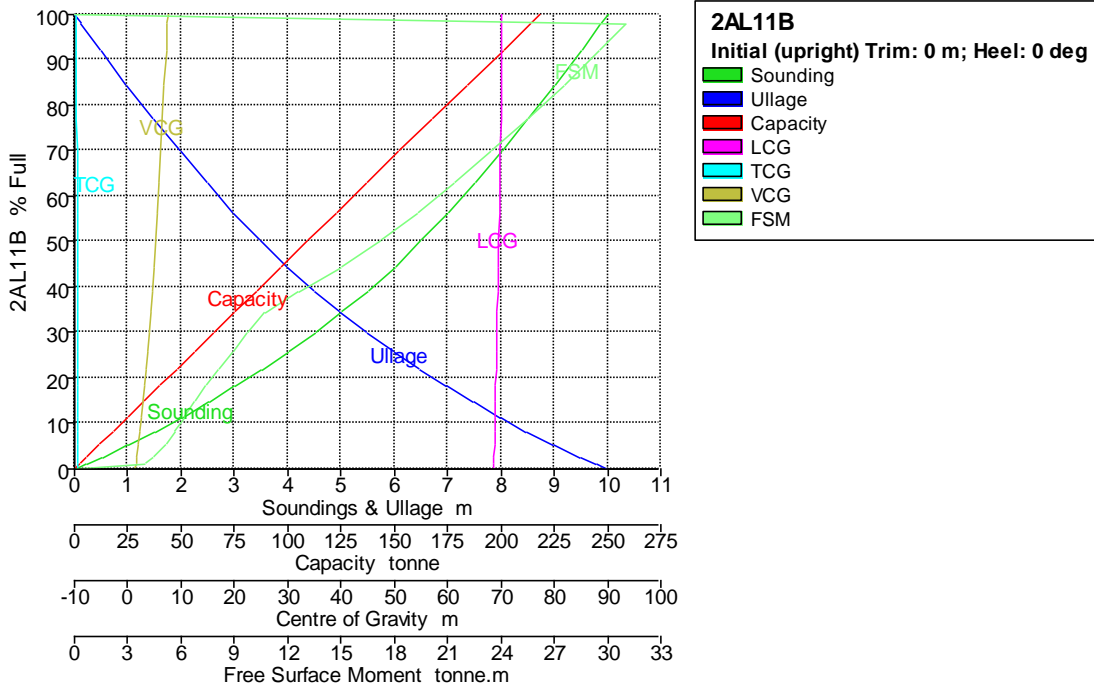


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL10E	10,000	0,000	100,000	82,201	84,256	62,076	11,305	6,996	0,000
	9,843	0,157	98,000	80,557	82,571	62,071	11,302	6,906	1,885
	9,835	0,165	97,900	80,475	82,487	62,071	11,302	6,901	1,884
	9,500	0,500	93,674	77,002	78,927	62,060	11,297	6,709	1,836
	9,000	1,000	87,439	71,876	73,672	62,042	11,288	6,420	1,762
	8,500	1,500	81,301	66,830	68,501	62,024	11,280	6,131	1,684
	8,000	2,000	75,270	61,873	63,420	62,004	11,271	5,841	1,603
	7,500	2,500	69,360	57,015	58,440	61,983	11,261	5,551	1,516
	7,000	3,000	63,584	52,267	53,574	61,961	11,252	5,260	1,423
	6,500	3,500	57,964	47,647	48,838	61,938	11,243	4,970	1,322
	6,000	4,000	52,528	43,179	44,258	61,915	11,234	4,682	1,209
	5,500	4,500	47,324	38,901	39,874	61,893	11,226	4,399	1,076
	5,000	5,000	42,415	34,866	35,737	61,874	11,220	4,127	0,966
	4,500	5,500	37,651	30,950	31,723	61,856	11,215	3,858	0,926
	4,000	6,000	32,991	27,119	27,797	61,838	11,209	3,591	0,887
	3,500	6,500	28,434	23,373	23,958	61,818	11,204	3,325	0,850
	3,000	7,000	23,982	19,714	20,206	61,797	11,198	3,060	0,813
	2,500	7,500	19,637	16,142	16,546	61,774	11,192	2,796	0,777
	2,000	8,000	15,404	12,662	12,979	61,749	11,185	2,534	0,740

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	1,500	8,500	11,292	9,282	9,514	61,721	11,178	2,272	0,700
	1,000	9,000	7,320	6,017	6,168	61,687	11,169	2,012	0,652
	0,500	9,500	3,526	2,898	2,971	61,642	11,157	1,754	0,588
	0,147	9,853	1,000	0,822	0,843	61,598	11,147	1,574	0,523
	0,000	10,000	0,000	0,000	0,000	61,576	11,142	1,500	0,000

Tank Calibrations - 2AL11B

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg

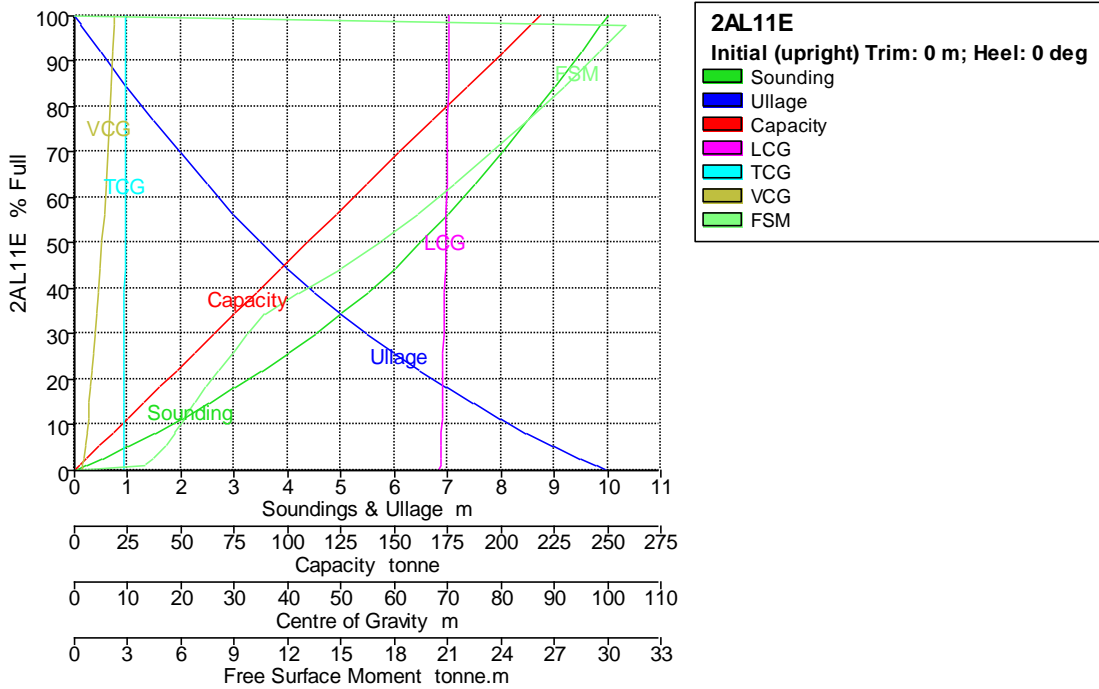


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL11B	10,000	0,000	100,000	212,833	218,153	70,249	-9,657	7,517	0,000
	9,875	0,125	98,000	208,576	213,790	70,232	-9,650	7,437	31,056
	9,869	0,131	97,900	208,363	213,572	70,231	-9,650	7,433	31,031
	9,500	0,500	92,061	195,936	200,834	70,181	-9,629	7,195	29,532
	9,000	1,000	84,352	179,529	184,018	70,107	-9,600	6,870	27,500
	8,500	1,500	76,892	163,652	167,743	70,026	-9,570	6,542	25,466
	8,000	2,000	69,702	148,348	152,057	69,939	-9,540	6,211	23,429
	7,500	2,500	62,806	133,672	137,014	69,844	-9,511	5,877	21,382
	7,000	3,000	56,237	119,690	122,682	69,742	-9,482	5,541	19,315
	6,500	3,500	50,033	106,486	109,149	69,635	-9,454	5,205	17,205
	6,000	4,000	44,248	94,174	96,528	69,524	-9,429	4,872	15,002
	5,500	4,500	38,957	82,914	84,986	69,419	-9,409	4,548	12,587
	5,000	5,000	34,236	72,866	74,687	69,331	-9,396	4,244	10,648
	4,500	5,500	29,847	63,524	65,112	69,251	-9,384	3,949	9,708
	4,000	6,000	25,717	54,733	56,102	69,177	-9,373	3,659	8,849
	3,500	6,500	21,822	46,445	47,606	69,108	-9,362	3,374	8,082
	3,000	7,000	18,142	38,613	39,578	69,043	-9,350	3,095	7,392

Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	2,500	7,500	14,659	31,199	31,979	68,981	-9,339	2,820	6,766
	2,000	8,000	11,358	24,173	24,777	68,919	-9,327	2,549	6,187
	1,500	8,500	8,229	17,514	17,952	68,855	-9,314	2,281	5,633
	1,000	9,000	5,273	11,223	11,503	68,784	-9,299	2,016	5,072
	0,500	9,500	2,508	5,339	5,472	68,694	-9,283	1,755	4,430
	0,207	9,793	1,000	2,128	2,182	68,626	-9,271	1,605	3,964
	0,000	10,000	0,000	0,000	0,000	68,567	-9,260	1,500	0,000

Tank Calibrations - 2AL11E

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL11E	10,000	0,000	100,000	212,833	218,153	70,249	9,657	7,517	0,000
	9,875	0,125	98,000	208,576	213,790	70,232	9,650	7,437	31,056
	9,869	0,131	97,900	208,363	213,572	70,231	9,650	7,433	31,031
	9,500	0,500	92,061	195,936	200,834	70,181	9,629	7,195	29,532
	9,000	1,000	84,352	179,529	184,018	70,107	9,600	6,870	27,500
	8,500	1,500	76,892	163,652	167,743	70,026	9,570	6,542	25,466
	8,000	2,000	69,702	148,348	152,057	69,939	9,540	6,211	23,429
	7,500	2,500	62,806	133,672	137,014	69,844	9,511	5,877	21,382
	7,000	3,000	56,237	119,690	122,682	69,742	9,482	5,541	19,315
	6,500	3,500	50,033	106,486	109,149	69,635	9,454	5,205	17,205
	6,000	4,000	44,248	94,174	96,528	69,524	9,429	4,872	15,002
	5,500	4,500	38,957	82,914	84,986	69,419	9,409	4,548	12,587
	5,000	5,000	34,236	72,866	74,687	69,331	9,396	4,244	10,648
	4,500	5,500	29,847	63,524	65,112	69,251	9,384	3,949	9,708
	4,000	6,000	25,717	54,733	56,102	69,177	9,373	3,659	8,849

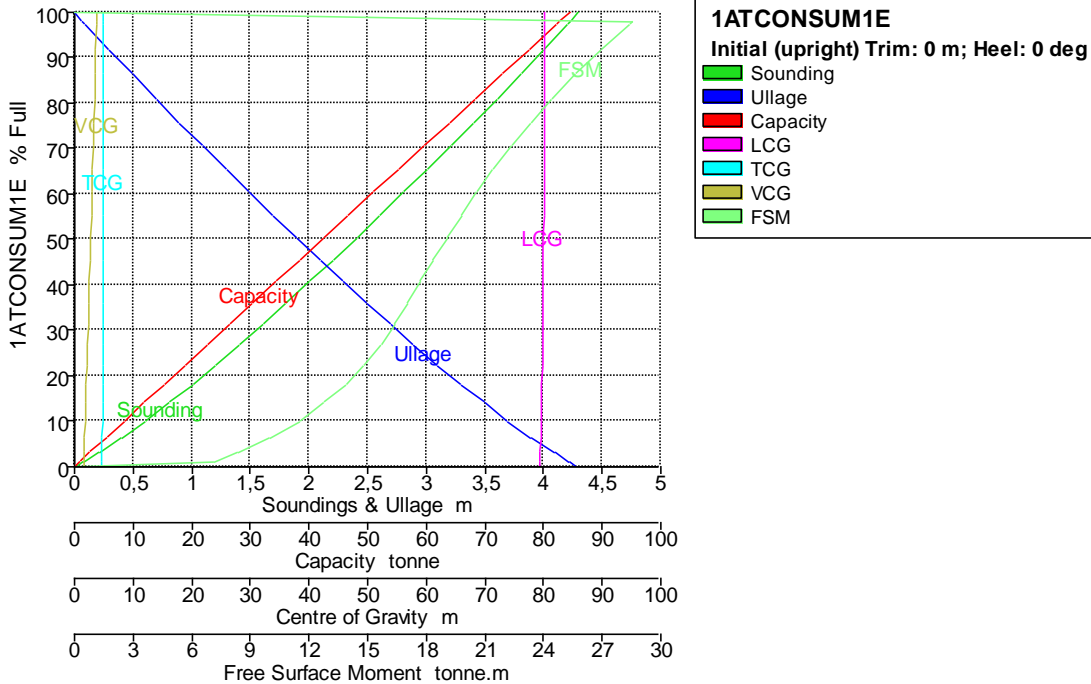
Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	3,500	6,500	21,822	46,445	47,606	69,108	9,362	3,374	8,082
	3,000	7,000	18,142	38,613	39,578	69,043	9,350	3,095	7,392
	2,500	7,500	14,659	31,199	31,979	68,981	9,339	2,820	6,766
	2,000	8,000	11,358	24,173	24,777	68,919	9,327	2,549	6,187
	1,500	8,500	8,229	17,514	17,952	68,855	9,314	2,281	5,633
	1,000	9,000	5,273	11,223	11,503	68,784	9,299	2,016	5,072
	0,500	9,500	2,508	5,339	5,472	68,694	9,283	1,755	4,430
	0,207	9,793	1,000	2,128	2,182	68,626	9,271	1,605	3,964
	0,000	10,000	0,000	0,000	0,000	68,567	9,260	1,500	0,000

Tank Calibrations - 1ATCONSUM1E

Fluid Type = Specific gravity = 1

Permeability = 100 %

Trim = 0 m (+ve by stern); Heel = 0 deg

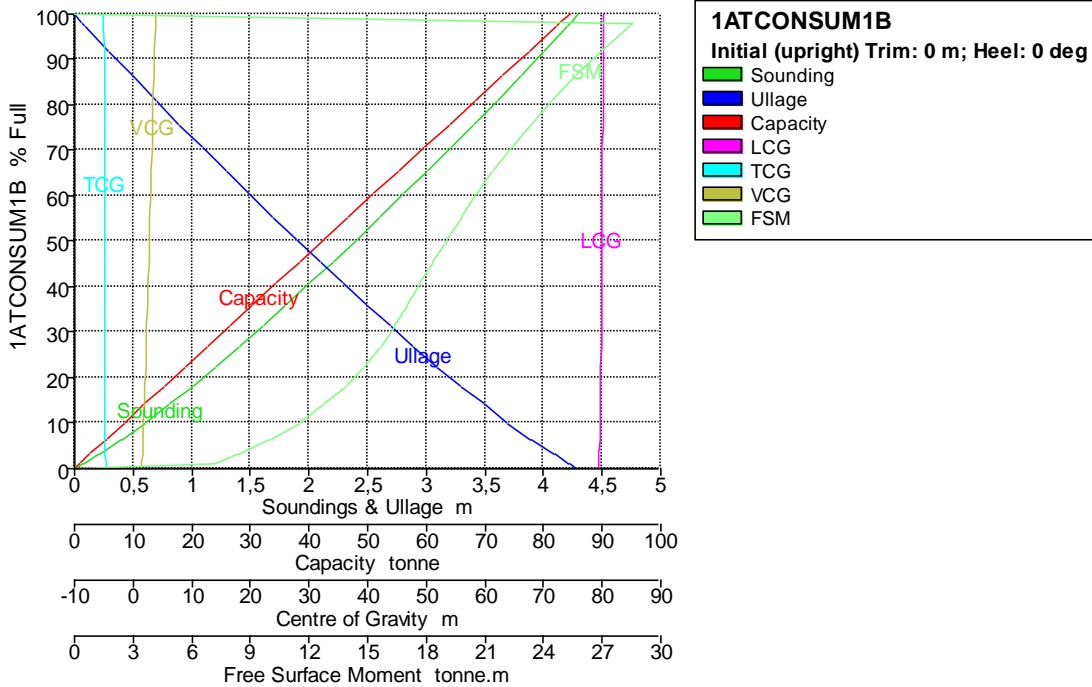


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
1ATCONSUM1E	4,300	0,000	100,000	84,403	84,403	80,115	4,990	3,827	0,000
	4,229	0,071	98,000	82,715	82,715	80,113	4,986	3,788	28,599
	4,226	0,074	97,900	82,630	82,630	80,113	4,985	3,786	28,572
	4,200	0,100	97,175	82,018	82,018	80,112	4,984	3,771	28,375
	4,000	0,300	91,614	77,325	77,325	80,107	4,972	3,660	26,922
	3,800	0,500	86,163	72,724	72,724	80,101	4,960	3,550	25,602
	3,600	0,700	80,811	68,206	68,206	80,095	4,949	3,441	24,401
	3,400	0,900	75,545	63,762	63,762	80,087	4,938	3,332	23,305
	3,200	1,100	70,359	59,385	59,385	80,078	4,928	3,224	22,304
	3,000	1,300	65,243	55,067	55,067	80,067	4,918	3,116	21,392
	2,800	1,500	60,192	50,804	50,804	80,054	4,909	3,009	20,556
	2,600	1,700	55,203	46,593	46,593	80,037	4,899	2,901	19,783
	2,400	1,900	50,274	42,432	42,432	80,018	4,890	2,793	19,061

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	2,200	2,100	45,406	38,324	38,324	79,994	4,880	2,685	18,378
	2,000	2,300	40,606	34,272	34,272	79,967	4,870	2,577	17,713
	1,800	2,500	35,879	30,283	30,283	79,935	4,860	2,468	17,053
	1,600	2,700	31,238	26,365	26,365	79,898	4,848	2,360	16,364
	1,400	2,900	26,696	22,532	22,532	79,856	4,835	2,251	15,623
	1,200	3,100	22,274	18,800	18,800	79,808	4,821	2,141	14,795
	1,000	3,300	17,996	15,189	15,189	79,754	4,804	2,032	13,847
	0,800	3,500	13,890	11,723	11,723	79,693	4,785	1,923	12,746
	0,600	3,700	9,992	8,433	8,433	79,624	4,763	1,815	11,461
	0,400	3,900	6,344	5,354	5,354	79,548	4,737	1,707	9,973
	0,200	4,100	2,995	2,528	2,528	79,464	4,706	1,602	8,290
	0,070	4,230	1,000	0,844	0,844	79,405	4,684	1,535	7,109
	0,000	4,300	0,000	0,000	0,000	79,372	4,671	1,500	0,000

Tank Calibrations - 1ATCONSUM1B

Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
1ATCONSUM1B	4,300	0,000	100,000	84,403	84,403	80,115	-4,990	3,827	0,000
	4,229	0,071	98,000	82,715	82,715	80,113	-4,986	3,788	28,599
	4,226	0,074	97,900	82,630	82,630	80,113	-4,985	3,786	28,572
	4,200	0,100	97,175	82,018	82,018	80,112	-4,984	3,771	28,375
	4,000	0,300	91,614	77,325	77,325	80,107	-4,972	3,660	26,922
	3,800	0,500	86,163	72,724	72,724	80,101	-4,960	3,550	25,602
	3,600	0,700	80,811	68,206	68,206	80,095	-4,949	3,441	24,401
	3,400	0,900	75,545	63,762	63,762	80,087	-4,938	3,332	23,305
	3,200	1,100	70,359	59,385	59,385	80,078	-4,928	3,224	22,304

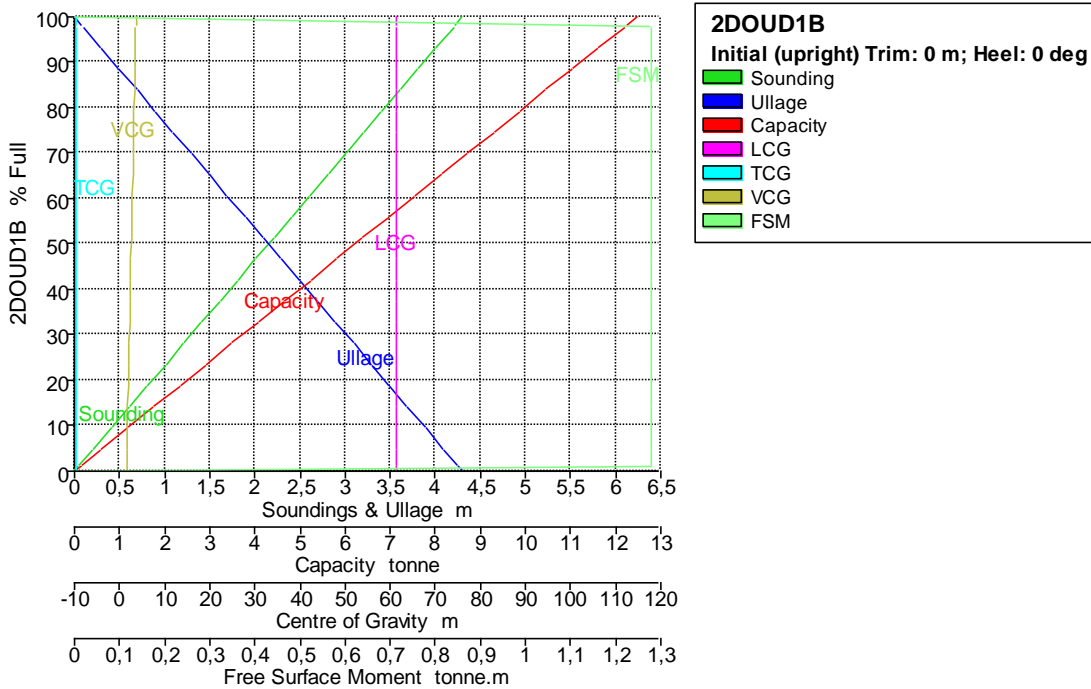
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	3,000	1,300	65,243	55,067	55,067	80,067	-4,918	3,116	21,392
	2,800	1,500	60,192	50,804	50,804	80,054	-4,909	3,009	20,556
	2,600	1,700	55,203	46,593	46,593	80,037	-4,899	2,901	19,783
	2,400	1,900	50,274	42,432	42,432	80,018	-4,890	2,793	19,061
	2,200	2,100	45,406	38,324	38,324	79,994	-4,880	2,685	18,378
	2,000	2,300	40,606	34,272	34,272	79,967	-4,870	2,577	17,713
	1,800	2,500	35,879	30,283	30,283	79,935	-4,860	2,468	17,053
	1,600	2,700	31,238	26,365	26,365	79,898	-4,848	2,360	16,364
	1,400	2,900	26,696	22,532	22,532	79,856	-4,835	2,251	15,623
	1,200	3,100	22,274	18,800	18,800	79,808	-4,821	2,141	14,795
	1,000	3,300	17,996	15,189	15,189	79,754	-4,804	2,032	13,847
	0,800	3,500	13,890	11,723	11,723	79,693	-4,785	1,923	12,746
	0,600	3,700	9,992	8,433	8,433	79,624	-4,763	1,815	11,461
	0,400	3,900	6,344	5,354	5,354	79,548	-4,737	1,707	9,973
	0,200	4,100	2,995	2,528	2,528	79,464	-4,706	1,602	8,290
	0,070	4,230	1,000	0,844	0,844	79,405	-4,684	1,535	7,109
	0,000	4,300	0,000	0,000	0,000	79,372	-4,671	1,500	0,000

Tank Calibrations - 2DOUD1B

Fluid Type = Diesel OIL Specific gravity = 0,84

Permeability = 100 %

Trim = 0 m (+ve by stern); Heel = 0 deg

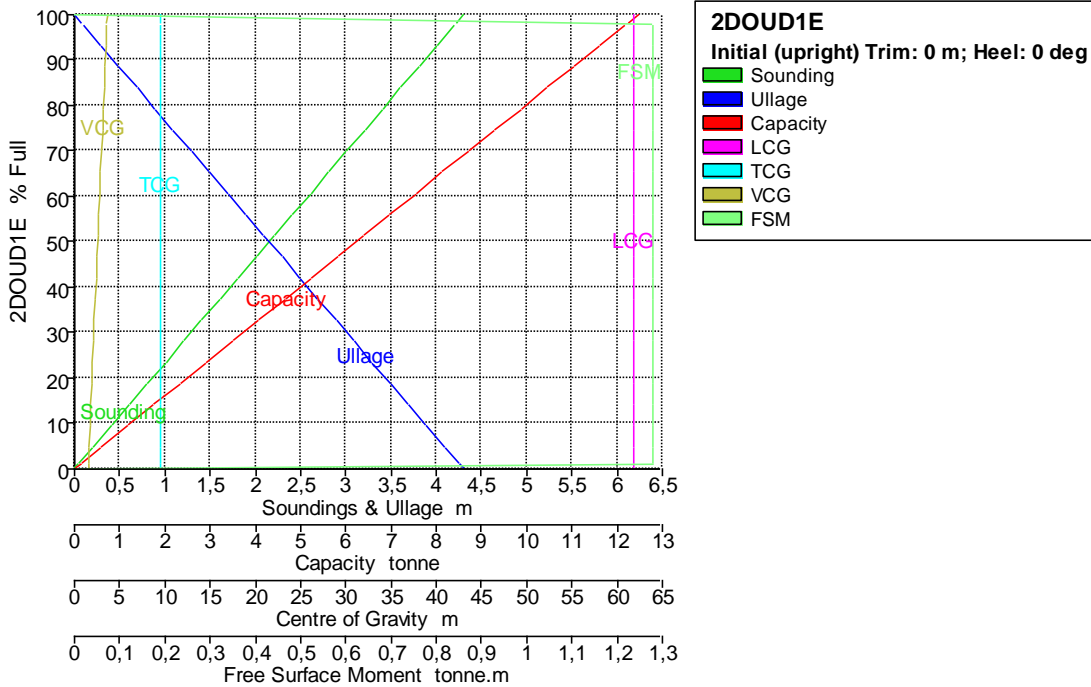


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DOUD1B	4,300	0,000	100,000	14,835	12,461	61,450	-9,550	3,650	0,000
	4,214	0,086	98,000	14,538	12,212	61,450	-9,550	3,607	1,278
	4,210	0,090	97,900	14,523	12,200	61,450	-9,550	3,605	1,278
	4,200	0,100	97,674	14,490	12,172	61,450	-9,550	3,600	1,278
	4,000	0,300	93,023	13,800	11,592	61,450	-9,550	3,500	1,278

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	3,800	0,500	88,372	13,110	11,012	61,450	-9,550	3,400	1,278
	3,600	0,700	83,721	12,420	10,433	61,450	-9,550	3,300	1,278
	3,400	0,900	79,070	11,730	9,853	61,450	-9,550	3,200	1,278
	3,200	1,100	74,419	11,040	9,274	61,450	-9,550	3,100	1,278
	3,000	1,300	69,767	10,350	8,694	61,450	-9,550	3,000	1,278
	2,800	1,500	65,116	9,660	8,114	61,450	-9,550	2,900	1,278
	2,600	1,700	60,465	8,970	7,535	61,450	-9,550	2,800	1,278
	2,400	1,900	55,814	8,280	6,955	61,450	-9,550	2,700	1,278
	2,200	2,100	51,163	7,590	6,376	61,450	-9,550	2,600	1,278
	2,000	2,300	46,512	6,900	5,796	61,450	-9,550	2,500	1,278
	1,800	2,500	41,860	6,210	5,216	61,450	-9,550	2,400	1,278
	1,600	2,700	37,209	5,520	4,637	61,450	-9,550	2,300	1,278
	1,400	2,900	32,558	4,830	4,057	61,450	-9,550	2,200	1,278
	1,200	3,100	27,907	4,140	3,478	61,450	-9,550	2,100	1,278
	1,000	3,300	23,256	3,450	2,898	61,450	-9,550	2,000	1,278
	0,800	3,500	18,605	2,760	2,318	61,450	-9,550	1,900	1,278
	0,600	3,700	13,953	2,070	1,739	61,450	-9,550	1,800	1,278
	0,400	3,900	9,302	1,380	1,159	61,450	-9,550	1,700	1,278
	0,200	4,100	4,651	0,690	0,580	61,450	-9,550	1,600	1,278
	0,043	4,257	1,000	0,148	0,125	61,450	-9,550	1,522	1,278
	0,000	4,300	0,000	0,000	0,000	61,450	-9,550	1,500	0,000

Tank Calibrations - 2DOUD1E

Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg

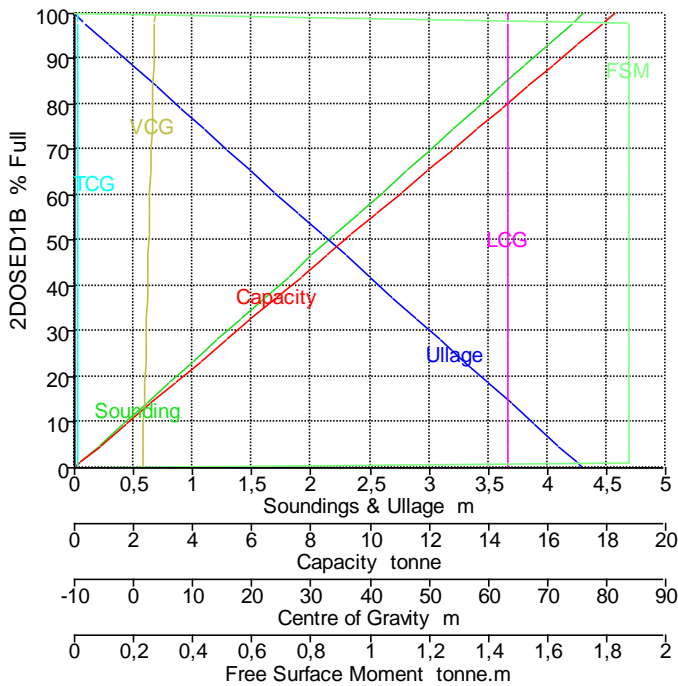


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DOUD1E	4,300	0,000	100,000	14,835	12,461	61,870	9,550	3,650	0,000

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	4,214	0,086	98,000	14,538	12,212	61,870	9,550	3,607	1,278
	4,210	0,090	97,900	14,523	12,200	61,870	9,550	3,605	1,278
	4,200	0,100	97,674	14,490	12,172	61,870	9,550	3,600	1,278
	4,000	0,300	93,023	13,800	11,592	61,870	9,550	3,500	1,278
	3,800	0,500	88,372	13,110	11,012	61,870	9,550	3,400	1,278
	3,600	0,700	83,721	12,420	10,433	61,870	9,550	3,300	1,278
	3,400	0,900	79,070	11,730	9,853	61,870	9,550	3,200	1,278
	3,200	1,100	74,419	11,040	9,274	61,870	9,550	3,100	1,278
	3,000	1,300	69,767	10,350	8,694	61,870	9,550	3,000	1,278
	2,800	1,500	65,116	9,660	8,114	61,870	9,550	2,900	1,278
	2,600	1,700	60,465	8,970	7,535	61,870	9,550	2,800	1,278
	2,400	1,900	55,814	8,280	6,955	61,870	9,550	2,700	1,278
	2,200	2,100	51,163	7,590	6,376	61,870	9,550	2,600	1,278
	2,000	2,300	46,512	6,900	5,796	61,870	9,550	2,500	1,278
	1,800	2,500	41,860	6,210	5,216	61,870	9,550	2,400	1,278
	1,600	2,700	37,209	5,520	4,637	61,870	9,550	2,300	1,278
	1,400	2,900	32,558	4,830	4,057	61,870	9,550	2,200	1,278
	1,200	3,100	27,907	4,140	3,478	61,870	9,550	2,100	1,278
	1,000	3,300	23,256	3,450	2,898	61,870	9,550	2,000	1,278
	0,800	3,500	18,605	2,760	2,318	61,870	9,550	1,900	1,278
	0,600	3,700	13,953	2,070	1,739	61,870	9,550	1,800	1,278
	0,400	3,900	9,302	1,380	1,159	61,870	9,550	1,700	1,278
	0,200	4,100	4,651	0,690	0,580	61,870	9,550	1,600	1,278
	0,043	4,257	1,000	0,148	0,125	61,870	9,550	1,522	1,278
	0,000	4,300	0,000	0,000	0,000	61,870	9,550	1,500	0,000

Tank Calibrations - 2DOSED1B

Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



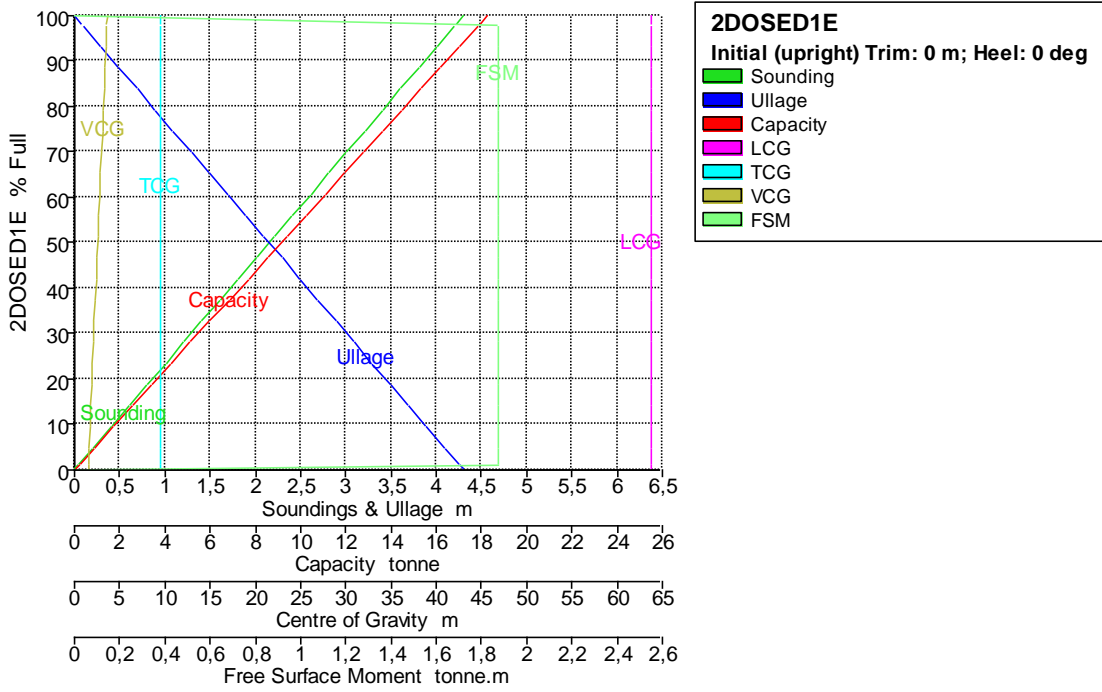
2DOSED1B
 Initial (upright) Trim: 0 m; Heel: 0 deg

- Sounding
- Ullage
- Capacity
- LCG
- TCG
- VCG
- FSM

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DOSED1B	4,300	0,000	100,000	21,758	18,277	63,300	-9,550	3,650	0,000
	4,214	0,086	98,000	21,323	17,911	63,300	-9,550	3,607	1,874
	4,210	0,090	97,900	21,301	17,893	63,300	-9,550	3,605	1,874
	4,200	0,100	97,674	21,252	17,852	63,300	-9,550	3,600	1,874
	4,000	0,300	93,023	20,240	17,002	63,300	-9,550	3,500	1,874
	3,800	0,500	88,372	19,228	16,152	63,300	-9,550	3,400	1,874
	3,600	0,700	83,721	18,216	15,301	63,300	-9,550	3,300	1,874
	3,400	0,900	79,070	17,204	14,451	63,300	-9,550	3,200	1,874
	3,200	1,100	74,419	16,192	13,601	63,300	-9,550	3,100	1,874
	3,000	1,300	69,767	15,180	12,751	63,300	-9,550	3,000	1,874
	2,800	1,500	65,116	14,168	11,901	63,300	-9,550	2,900	1,874
	2,600	1,700	60,465	13,156	11,051	63,300	-9,550	2,800	1,874
	2,400	1,900	55,814	12,144	10,201	63,300	-9,550	2,700	1,874
	2,200	2,100	51,163	11,132	9,351	63,300	-9,550	2,600	1,874
	2,000	2,300	46,512	10,120	8,501	63,300	-9,550	2,500	1,874
	1,800	2,500	41,860	9,108	7,651	63,300	-9,550	2,400	1,874
	1,600	2,700	37,209	8,096	6,801	63,300	-9,550	2,300	1,874
	1,400	2,900	32,558	7,084	5,951	63,300	-9,550	2,200	1,874
	1,200	3,100	27,907	6,072	5,100	63,300	-9,550	2,100	1,874
	1,000	3,300	23,256	5,060	4,250	63,300	-9,550	2,000	1,874
	0,800	3,500	18,605	4,048	3,400	63,300	-9,550	1,900	1,874
	0,600	3,700	13,953	3,036	2,550	63,300	-9,550	1,800	1,874
	0,400	3,900	9,302	2,024	1,700	63,300	-9,550	1,700	1,874
	0,200	4,100	4,651	1,012	0,850	63,300	-9,550	1,600	1,874
	0,043	4,257	1,000	0,218	0,183	63,300	-9,550	1,522	1,874
	0,000	4,300	0,000	0,000	0,000	63,300	-9,550	1,500	0,000

Tank Calibrations - 2DOSED1E

Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



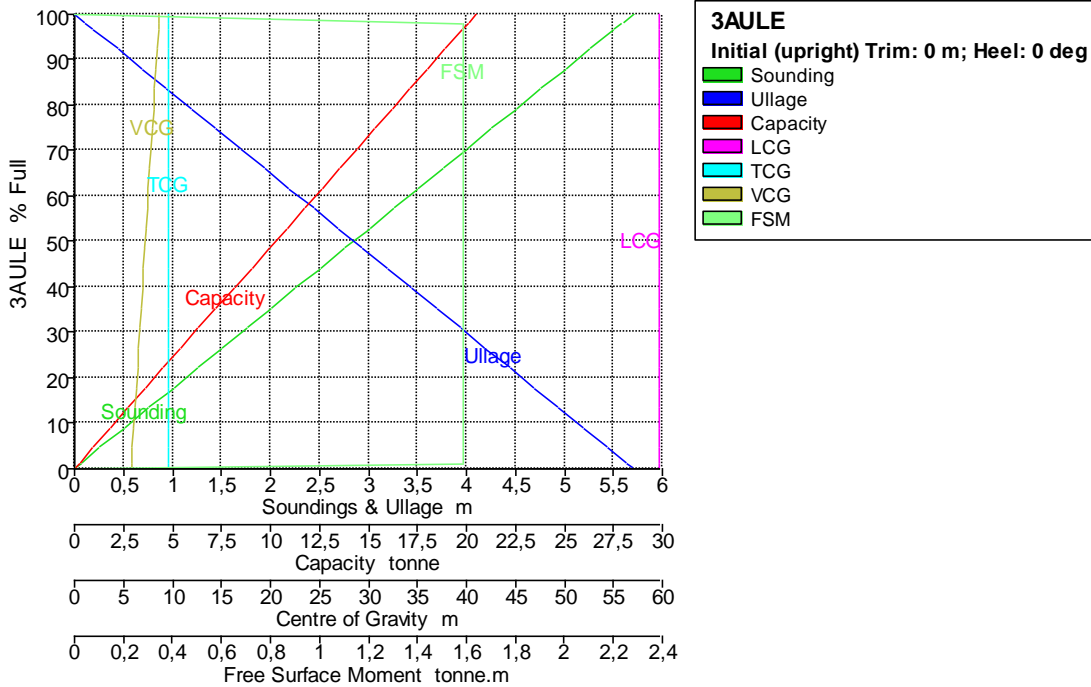
Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DOSED1E	4,300	0,000	100,000	21,758	18,277	63,720	9,550	3,650	0,000
	4,214	0,086	98,000	21,323	17,911	63,720	9,550	3,607	1,874
	4,210	0,090	97,900	21,301	17,893	63,720	9,550	3,605	1,874
	4,200	0,100	97,674	21,252	17,852	63,720	9,550	3,600	1,874
	4,000	0,300	93,023	20,240	17,002	63,720	9,550	3,500	1,874
	3,800	0,500	88,372	19,228	16,152	63,720	9,550	3,400	1,874
	3,600	0,700	83,721	18,216	15,301	63,720	9,550	3,300	1,874
	3,400	0,900	79,070	17,204	14,451	63,720	9,550	3,200	1,874
	3,200	1,100	74,419	16,192	13,601	63,720	9,550	3,100	1,874
	3,000	1,300	69,767	15,180	12,751	63,720	9,550	3,000	1,874
	2,800	1,500	65,116	14,168	11,901	63,720	9,550	2,900	1,874
	2,600	1,700	60,465	13,156	11,051	63,720	9,550	2,800	1,874
	2,400	1,900	55,814	12,144	10,201	63,720	9,550	2,700	1,874
	2,200	2,100	51,163	11,132	9,351	63,720	9,550	2,600	1,874
	2,000	2,300	46,512	10,120	8,501	63,720	9,550	2,500	1,874
	1,800	2,500	41,860	9,108	7,651	63,720	9,550	2,400	1,874
	1,600	2,700	37,209	8,096	6,801	63,720	9,550	2,300	1,874
	1,400	2,900	32,558	7,084	5,951	63,720	9,550	2,200	1,874
	1,200	3,100	27,907	6,072	5,100	63,720	9,550	2,100	1,874
	1,000	3,300	23,256	5,060	4,250	63,720	9,550	2,000	1,874
	0,800	3,500	18,605	4,048	3,400	63,720	9,550	1,900	1,874
	0,600	3,700	13,953	3,036	2,550	63,720	9,550	1,800	1,874
	0,400	3,900	9,302	2,024	1,700	63,720	9,550	1,700	1,874
	0,200	4,100	4,651	1,012	0,850	63,720	9,550	1,600	1,874
	0,043	4,257	1,000	0,218	0,183	63,720	9,550	1,522	1,874
	0,000	4,300	0,000	0,000	0,000	63,720	9,550	1,500	0,000

Tank Calibrations - 3AULE

Fluid Type = Aceite Specific gravity = 0,92

Permeability = 100 %

Trim = 0 m (+ve by stern); Heel = 0 deg



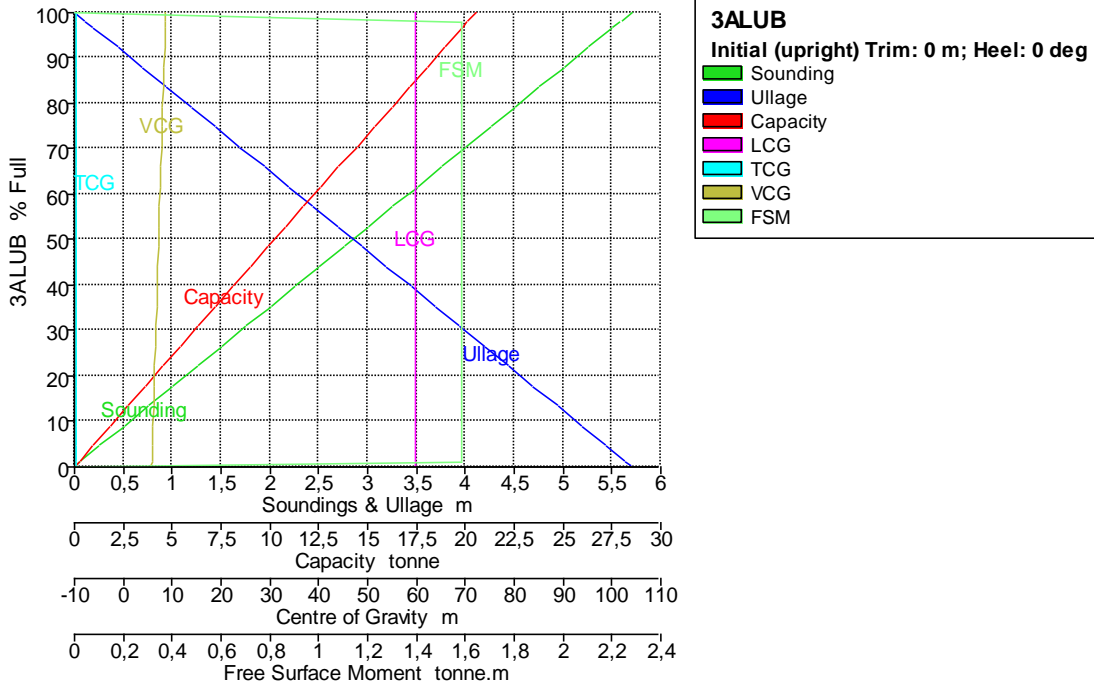
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3AULE	5,700	0,000	100,000	22,287	20,504	59,650	9,550	8,650	0,000
	5,586	0,114	98,000	21,841	20,094	59,650	9,550	8,593	1,586
	5,580	0,120	97,900	21,819	20,073	59,650	9,550	8,590	1,586
	5,500	0,200	96,491	21,505	19,785	59,650	9,550	8,550	1,586
	5,250	0,450	92,105	20,527	18,885	59,650	9,550	8,425	1,586
	5,000	0,700	87,719	19,550	17,986	59,650	9,550	8,300	1,586
	4,750	0,950	83,333	18,572	17,087	59,650	9,550	8,175	1,586
	4,500	1,200	78,947	17,595	16,187	59,650	9,550	8,050	1,586
	4,250	1,450	74,561	16,617	15,288	59,650	9,550	7,925	1,586
	4,000	1,700	70,175	15,640	14,389	59,650	9,550	7,800	1,586
	3,750	1,950	65,789	14,662	13,489	59,650	9,550	7,675	1,586
	3,500	2,200	61,404	13,685	12,590	59,650	9,550	7,550	1,586
	3,250	2,450	57,018	12,707	11,691	59,650	9,550	7,425	1,586
	3,000	2,700	52,632	11,730	10,792	59,650	9,550	7,300	1,586
	2,750	2,950	48,246	10,752	9,892	59,650	9,550	7,175	1,586
	2,500	3,200	43,860	9,775	8,993	59,650	9,550	7,050	1,586
	2,250	3,450	39,474	8,797	8,094	59,650	9,550	6,925	1,586
	2,000	3,700	35,088	7,820	7,194	59,650	9,550	6,800	1,586
	1,750	3,950	30,702	6,842	6,295	59,650	9,550	6,675	1,586
	1,500	4,200	26,316	5,865	5,396	59,650	9,550	6,550	1,586
	1,250	4,450	21,930	4,887	4,496	59,650	9,550	6,425	1,586
	1,000	4,700	17,544	3,910	3,597	59,650	9,550	6,300	1,586
	0,750	4,950	13,158	2,932	2,698	59,650	9,550	6,175	1,586
	0,500	5,200	8,772	1,955	1,799	59,650	9,550	6,050	1,586
	0,250	5,450	4,386	0,977	0,899	59,650	9,550	5,925	1,586
	0,057	5,643	1,000	0,223	0,205	59,650	9,550	5,829	1,586
	0,000	5,700	0,000	0,000	0,000	59,650	9,550	5,800	0,000

Tank Calibrations - 3ALUB

Fluid Type = Aceite Specific gravity = 0,92

Permeability = 100 %

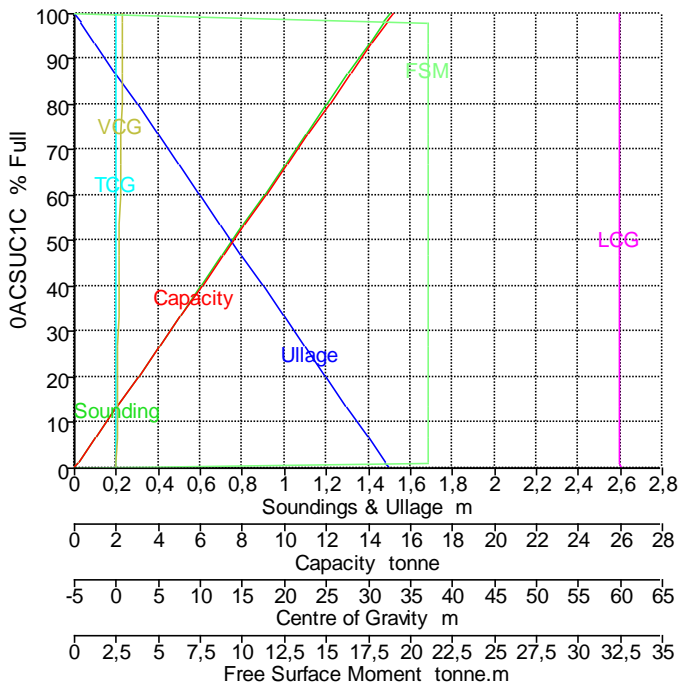
Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3ALUB	5,700	0,000	100,000	22,287	20,504	59,650	-9,550	8,650	0,000
	5,586	0,114	98,000	21,841	20,094	59,650	-9,550	8,593	1,586
	5,580	0,120	97,900	21,819	20,073	59,650	-9,550	8,590	1,586
	5,500	0,200	96,491	21,505	19,785	59,650	-9,550	8,550	1,586
	5,250	0,450	92,105	20,527	18,885	59,650	-9,550	8,425	1,586
	5,000	0,700	87,719	19,550	17,986	59,650	-9,550	8,300	1,586
	4,750	0,950	83,333	18,572	17,087	59,650	-9,550	8,175	1,586
	4,500	1,200	78,947	17,595	16,187	59,650	-9,550	8,050	1,586
	4,250	1,450	74,561	16,617	15,288	59,650	-9,550	7,925	1,586
	4,000	1,700	70,175	15,640	14,389	59,650	-9,550	7,800	1,586
	3,750	1,950	65,789	14,662	13,489	59,650	-9,550	7,675	1,586
	3,500	2,200	61,404	13,685	12,590	59,650	-9,550	7,550	1,586
	3,250	2,450	57,018	12,707	11,691	59,650	-9,550	7,425	1,586
	3,000	2,700	52,632	11,730	10,792	59,650	-9,550	7,300	1,586
	2,750	2,950	48,246	10,752	9,892	59,650	-9,550	7,175	1,586
	2,500	3,200	43,860	9,775	8,993	59,650	-9,550	7,050	1,586
	2,250	3,450	39,474	8,797	8,094	59,650	-9,550	6,925	1,586
	2,000	3,700	35,088	7,820	7,194	59,650	-9,550	6,800	1,586
	1,750	3,950	30,702	6,842	6,295	59,650	-9,550	6,675	1,586
	1,500	4,200	26,316	5,865	5,396	59,650	-9,550	6,550	1,586
	1,250	4,450	21,930	4,887	4,496	59,650	-9,550	6,425	1,586
	1,000	4,700	17,544	3,910	3,597	59,650	-9,550	6,300	1,586
	0,750	4,950	13,158	2,932	2,698	59,650	-9,550	6,175	1,586
	0,500	5,200	8,772	1,955	1,799	59,650	-9,550	6,050	1,586
	0,250	5,450	4,386	0,977	0,899	59,650	-9,550	5,925	1,586
	0,057	5,643	1,000	0,223	0,205	59,650	-9,550	5,829	1,586
	0,000	5,700	0,000	0,000	0,000	59,650	-9,550	5,800	0,000

Tank Calibrations - 0ACSUC1C

Fluid Type = Aceite Specific gravity = 0,92
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



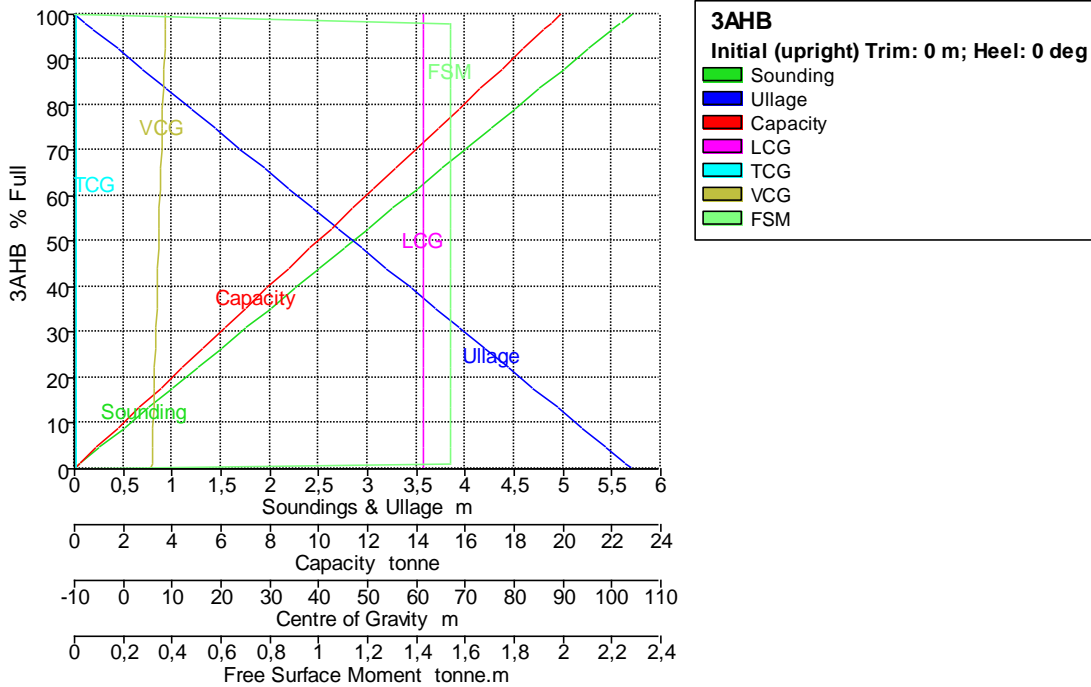
OACSUC1C
 Initial (upright) Trim: 0 m; Heel: 0 deg

- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
OACSUC1C	1,500	0,000	100,000	16,482	15,163	59,900	0,000	0,751	0,000
	1,470	0,030	98,000	16,152	14,860	59,900	0,000	0,736	21,083
	1,469	0,031	97,900	16,136	14,845	59,900	0,000	0,735	21,083
	1,400	0,100	93,326	15,382	14,151	59,900	0,000	0,701	21,083
	1,300	0,200	86,652	14,282	13,139	59,900	0,000	0,651	21,083
	1,200	0,300	79,978	13,182	12,127	59,900	0,000	0,601	21,083
	1,100	0,400	73,304	12,082	11,115	59,900	0,000	0,551	21,083
	1,000	0,500	66,630	10,982	10,103	59,900	0,000	0,501	21,083
	0,900	0,600	59,956	9,882	9,091	59,900	0,000	0,451	21,083
	0,800	0,700	53,281	8,782	8,079	59,900	0,000	0,401	21,083
	0,700	0,800	46,607	7,682	7,067	59,900	0,000	0,351	21,083
	0,600	0,900	39,933	6,582	6,055	59,900	0,000	0,301	21,083
	0,500	1,000	33,259	5,482	5,043	59,900	0,000	0,251	21,083
	0,400	1,100	26,585	4,382	4,031	59,900	0,000	0,201	21,083
	0,300	1,200	19,911	3,282	3,019	59,900	0,000	0,151	21,083
	0,200	1,300	13,237	2,182	2,007	59,899	0,000	0,101	21,083
	0,100	1,400	6,563	1,082	0,995	59,899	0,000	0,051	21,083
	0,017	1,483	1,000	0,165	0,152	59,892	0,000	0,009	21,083
	0,000	1,500	0,000	0,000	0,000	60,138	0,000	0,000	0,000

Tank Calibrations - 3AHB

Fluid Type = Aceite Specific gravity = 0,92
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



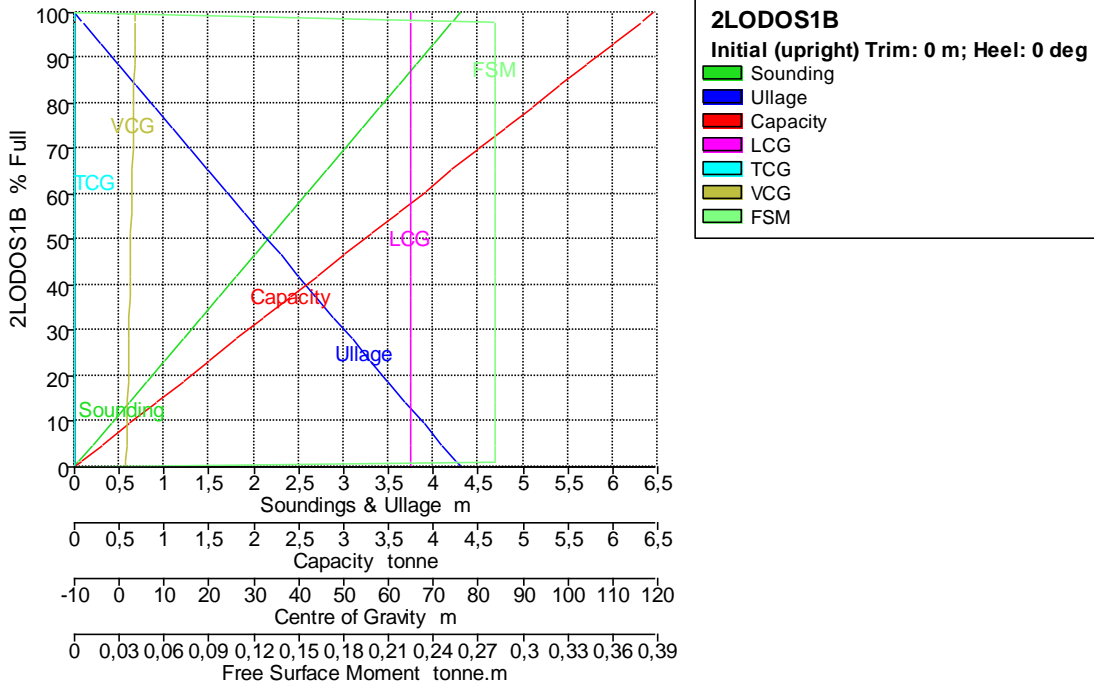
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3AHB	5,700	0,000	100,000	21,631	19,901	61,325	-9,550	8,650	0,000
	5,586	0,114	98,000	21,199	19,503	61,325	-9,550	8,593	1,539
	5,580	0,120	97,900	21,177	19,483	61,325	-9,550	8,590	1,539
	5,500	0,200	96,491	20,872	19,203	61,325	-9,550	8,550	1,539
	5,250	0,450	92,105	19,924	18,330	61,325	-9,550	8,425	1,539
	5,000	0,700	87,719	18,975	17,457	61,325	-9,550	8,300	1,539
	4,750	0,950	83,333	18,026	16,584	61,325	-9,550	8,175	1,539
	4,500	1,200	78,947	17,077	15,711	61,325	-9,550	8,050	1,539
	4,250	1,450	74,561	16,129	14,838	61,325	-9,550	7,925	1,539
	4,000	1,700	70,175	15,180	13,966	61,325	-9,550	7,800	1,539
	3,750	1,950	65,789	14,231	13,093	61,325	-9,550	7,675	1,539
	3,500	2,200	61,404	13,282	12,220	61,325	-9,550	7,550	1,539
	3,250	2,450	57,018	12,334	11,347	61,325	-9,550	7,425	1,539
	3,000	2,700	52,632	11,385	10,474	61,325	-9,550	7,300	1,539
	2,750	2,950	48,246	10,436	9,601	61,325	-9,550	7,175	1,539
	2,500	3,200	43,860	9,487	8,728	61,325	-9,550	7,050	1,539
	2,250	3,450	39,474	8,539	7,856	61,325	-9,550	6,925	1,539
	2,000	3,700	35,088	7,590	6,983	61,325	-9,550	6,800	1,539
	1,750	3,950	30,702	6,641	6,110	61,325	-9,550	6,675	1,539
	1,500	4,200	26,316	5,692	5,237	61,325	-9,550	6,550	1,539
	1,250	4,450	21,930	4,744	4,364	61,325	-9,550	6,425	1,539
	1,000	4,700	17,544	3,795	3,491	61,325	-9,550	6,300	1,539
	0,750	4,950	13,158	2,846	2,619	61,325	-9,550	6,175	1,539
	0,500	5,200	8,772	1,897	1,746	61,325	-9,550	6,050	1,539
	0,250	5,450	4,386	0,949	0,873	61,325	-9,550	5,925	1,539
	0,057	5,643	1,000	0,216	0,199	61,325	-9,550	5,829	1,539
	0,000	5,700	0,000	0,000	0,000	61,325	-9,550	5,800	0,000

Tank Calibrations - 2LODOS1B

Fluid Type = Specific gravity = 1

Permeability = 100 %

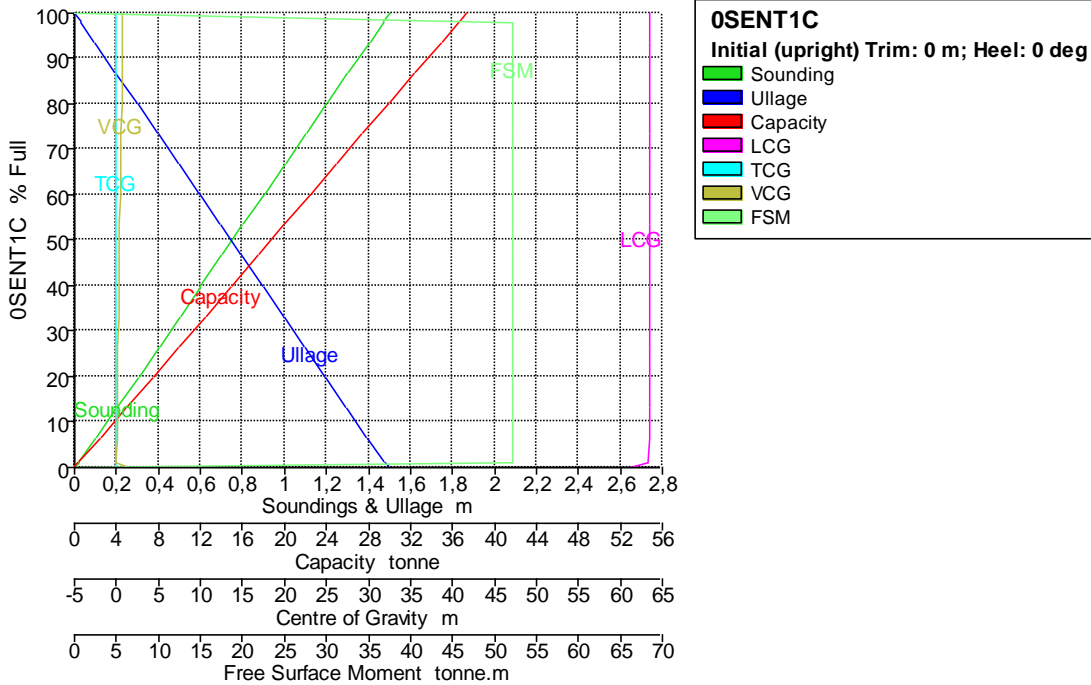
Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2LODOS1B	4,300	0,000	100,000	6,450	6,450	64,900	-9,950	3,650	0,000
	4,214	0,086	98,000	6,321	6,321	64,900	-9,950	3,607	0,281
	4,210	0,090	97,900	6,315	6,315	64,900	-9,950	3,605	0,281
	4,200	0,100	97,674	6,300	6,300	64,900	-9,950	3,600	0,281
	4,000	0,300	93,023	6,000	6,000	64,900	-9,950	3,500	0,281
	3,800	0,500	88,372	5,700	5,700	64,900	-9,950	3,400	0,281
	3,600	0,700	83,721	5,400	5,400	64,900	-9,950	3,300	0,281
	3,400	0,900	79,070	5,100	5,100	64,900	-9,950	3,200	0,281
	3,200	1,100	74,419	4,800	4,800	64,900	-9,950	3,100	0,281
	3,000	1,300	69,767	4,500	4,500	64,900	-9,950	3,000	0,281
	2,800	1,500	65,116	4,200	4,200	64,900	-9,950	2,900	0,281
	2,600	1,700	60,465	3,900	3,900	64,900	-9,950	2,800	0,281
	2,400	1,900	55,814	3,600	3,600	64,900	-9,950	2,700	0,281
	2,200	2,100	51,163	3,300	3,300	64,900	-9,950	2,600	0,281
	2,000	2,300	46,512	3,000	3,000	64,900	-9,950	2,500	0,281
	1,800	2,500	41,860	2,700	2,700	64,900	-9,950	2,400	0,281
	1,600	2,700	37,209	2,400	2,400	64,900	-9,950	2,300	0,281
	1,400	2,900	32,558	2,100	2,100	64,900	-9,950	2,200	0,281
	1,200	3,100	27,907	1,800	1,800	64,900	-9,950	2,100	0,281
	1,000	3,300	23,256	1,500	1,500	64,900	-9,950	2,000	0,281
	0,800	3,500	18,605	1,200	1,200	64,900	-9,950	1,900	0,281
	0,600	3,700	13,953	0,900	0,900	64,900	-9,950	1,800	0,281
	0,400	3,900	9,302	0,600	0,600	64,900	-9,950	1,700	0,281
	0,200	4,100	4,651	0,300	0,300	64,900	-9,950	1,600	0,281
	0,043	4,257	1,000	0,065	0,065	64,900	-9,950	1,522	0,281
	0,000	4,300	0,000	0,000	0,000	64,900	-9,950	1,500	0,000

Tank Calibrations - 0SENT1C

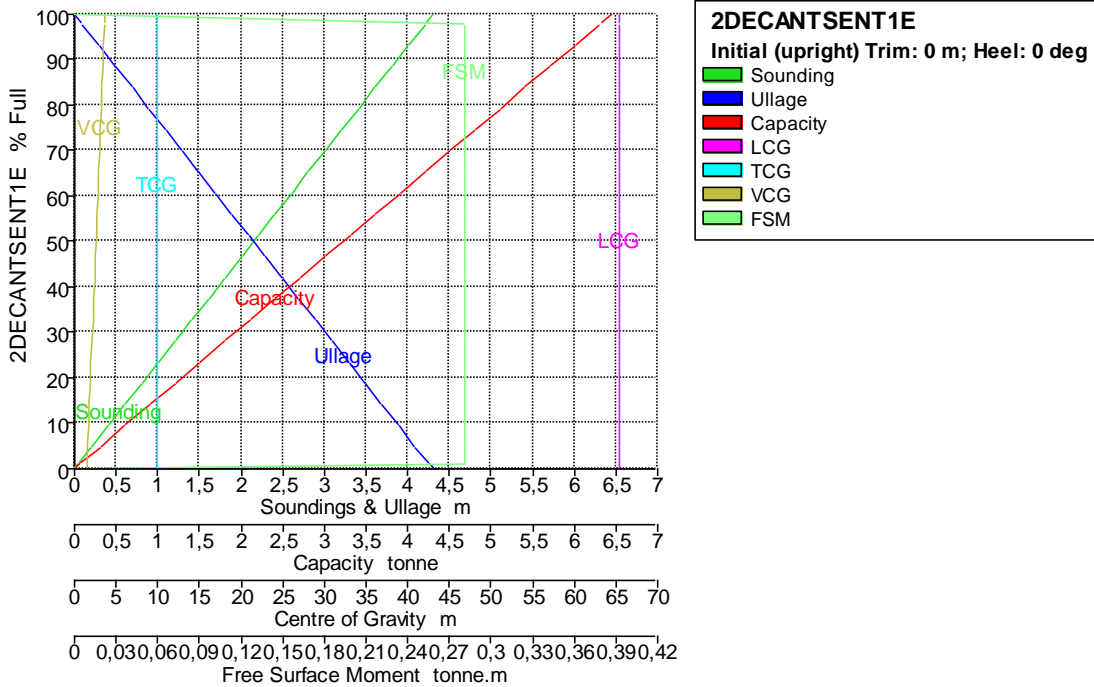
Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
OSENT1C	1,500	0,000	100,000	37,387	37,387	63,498	0,000	0,752	0,000
	1,470	0,030	98,000	36,639	36,639	63,498	0,000	0,737	52,083
	1,469	0,031	97,900	36,601	36,601	63,498	0,000	0,737	52,083
	1,400	0,100	93,318	34,888	34,888	63,498	0,000	0,702	52,083
	1,300	0,200	86,631	32,388	32,388	63,498	0,000	0,652	52,083
	1,200	0,300	79,944	29,888	29,888	63,498	0,000	0,602	52,083
	1,100	0,400	73,257	27,388	27,388	63,498	0,000	0,552	52,083
	1,000	0,500	66,570	24,888	24,888	63,497	0,000	0,502	52,083
	0,900	0,600	59,883	22,388	22,388	63,497	0,000	0,452	52,083
	0,800	0,700	53,196	19,888	19,888	63,497	0,000	0,402	52,083
	0,700	0,800	46,509	17,388	17,388	63,496	0,000	0,352	52,083
	0,600	0,900	39,822	14,888	14,888	63,496	0,000	0,302	52,083
	0,500	1,000	33,136	12,388	12,388	63,495	0,000	0,252	52,083
	0,400	1,100	26,449	9,888	9,888	63,494	0,000	0,202	52,083
	0,300	1,200	19,762	7,388	7,388	63,491	0,000	0,152	52,083
	0,200	1,300	13,075	4,888	4,888	63,487	0,000	0,102	52,083
	0,100	1,400	6,388	2,388	2,388	63,473	0,000	0,052	52,083
	0,019	1,481	1,000	0,374	0,374	63,329	0,000	0,012	52,083
	0,000	1,500	0,000	0,000	0,000	61,065	0,000	1,652	0,000

Tank Calibrations - 2DECANTSENT1E

Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg

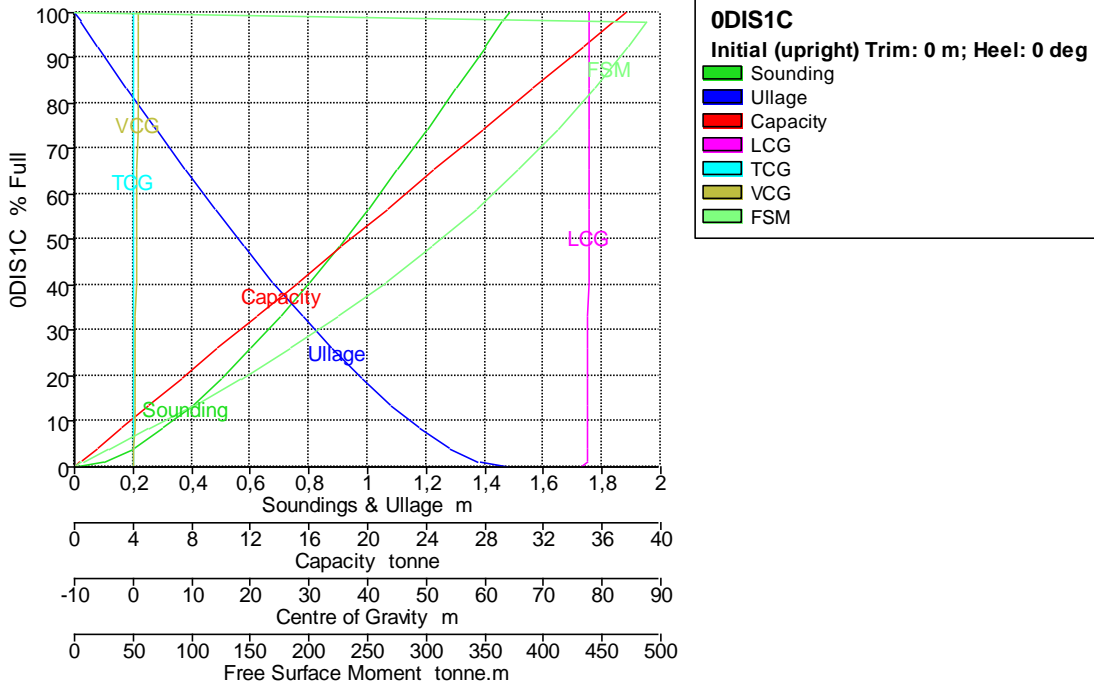


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DECANTSENT1E	4,300	0,000	100,000	6,450	6,450	65,320	9,950	3,650	0,000
	4,214	0,086	98,000	6,321	6,321	65,320	9,950	3,607	0,281
	4,210	0,090	97,900	6,315	6,315	65,320	9,950	3,605	0,281
	4,200	0,100	97,674	6,300	6,300	65,320	9,950	3,600	0,281
	4,000	0,300	93,023	6,000	6,000	65,320	9,950	3,500	0,281
	3,800	0,500	88,372	5,700	5,700	65,320	9,950	3,400	0,281
	3,600	0,700	83,721	5,400	5,400	65,320	9,950	3,300	0,281
	3,400	0,900	79,070	5,100	5,100	65,320	9,950	3,200	0,281
	3,200	1,100	74,419	4,800	4,800	65,320	9,950	3,100	0,281
	3,000	1,300	69,767	4,500	4,500	65,320	9,950	3,000	0,281
	2,800	1,500	65,116	4,200	4,200	65,320	9,950	2,900	0,281
	2,600	1,700	60,465	3,900	3,900	65,320	9,950	2,800	0,281
	2,400	1,900	55,814	3,600	3,600	65,320	9,950	2,700	0,281
	2,200	2,100	51,163	3,300	3,300	65,320	9,950	2,600	0,281
	2,000	2,300	46,512	3,000	3,000	65,320	9,950	2,500	0,281
	1,800	2,500	41,860	2,700	2,700	65,320	9,950	2,400	0,281
	1,600	2,700	37,209	2,400	2,400	65,320	9,950	2,300	0,281
	1,400	2,900	32,558	2,100	2,100	65,320	9,950	2,200	0,281
	1,200	3,100	27,907	1,800	1,800	65,320	9,950	2,100	0,281
	1,000	3,300	23,256	1,500	1,500	65,320	9,950	2,000	0,281
	0,800	3,500	18,605	1,200	1,200	65,320	9,950	1,900	0,281
	0,600	3,700	13,953	0,900	0,900	65,320	9,950	1,800	0,281
	0,400	3,900	9,302	0,600	0,600	65,320	9,950	1,700	0,281
	0,200	4,100	4,651	0,300	0,300	65,320	9,950	1,600	0,281
	0,043	4,257	1,000	0,065	0,065	65,320	9,950	1,522	0,281
	0,000	4,300	0,000	0,000	0,000	65,320	9,950	1,500	0,000

Tank Calibrations - 0DIS1C

Fluid Type = Dispersante Specific gravity = 0,8

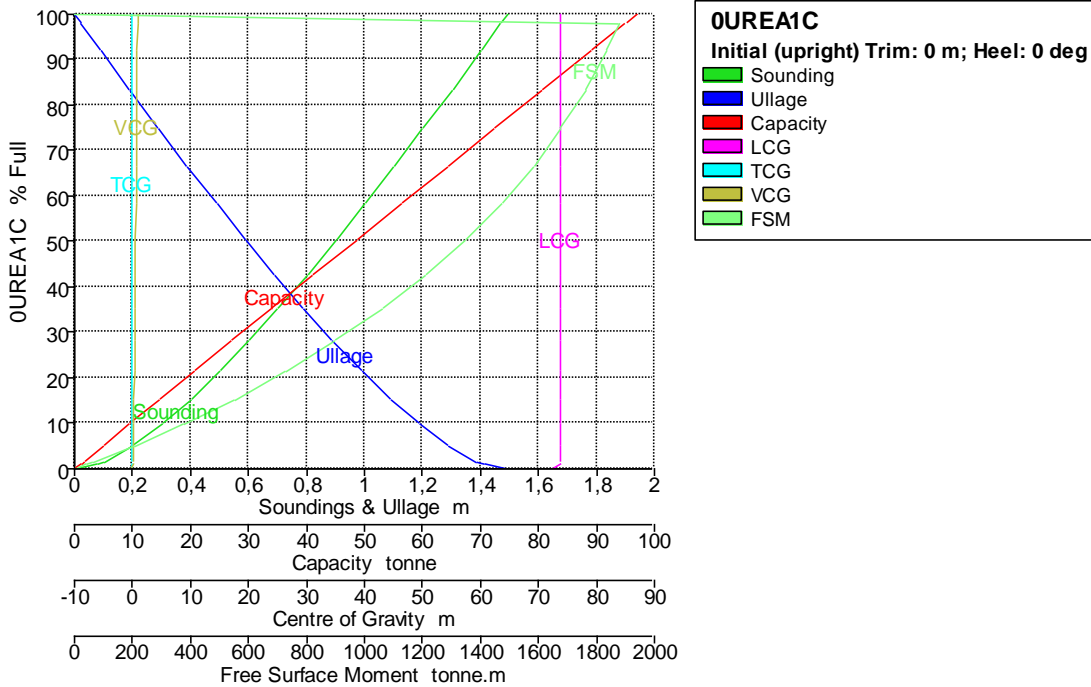
Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
ODIS1C	1,481	0,000	100,000	46,961	37,569	77,658	0,000	0,904	0,000
	1,460	0,021	98,000	46,022	36,817	77,658	0,000	0,892	487,915
	1,459	0,022	97,900	45,975	36,780	77,658	0,000	0,891	487,637
	1,400	0,081	92,330	43,359	34,687	77,657	0,000	0,858	471,594
	1,300	0,181	83,055	39,003	31,203	77,655	0,000	0,801	442,509
	1,200	0,281	73,992	34,747	27,798	77,652	0,000	0,743	411,058
	1,100	0,381	65,169	30,604	24,483	77,650	0,000	0,686	377,433
	1,000	0,481	56,614	26,586	21,269	77,647	0,000	0,628	341,834
	0,900	0,581	48,362	22,711	18,169	77,643	0,000	0,570	304,425
	0,800	0,681	40,452	18,997	15,197	77,639	0,000	0,511	265,340
	0,700	0,781	32,934	15,466	12,373	77,634	0,000	0,452	224,812
	0,600	0,881	25,867	12,148	9,718	77,627	0,000	0,393	183,277
	0,500	0,981	19,327	9,076	7,261	77,618	0,000	0,333	141,450
	0,400	1,081	13,409	6,297	5,038	77,605	0,000	0,273	100,462
	0,300	1,181	8,246	3,872	3,098	77,585	0,000	0,212	62,094
	0,200	1,281	4,028	1,891	1,513	77,545	0,000	0,150	29,186
	0,100	1,381	1,067	0,501	0,401	77,427	0,000	0,087	6,447
	0,097	1,384	1,000	0,470	0,376	77,419	0,000	0,085	5,973
	0,000	1,481	0,000	0,000	0,000	76,047	0,000	0,019	0,000

Tank Calibrations - 0UREA1C

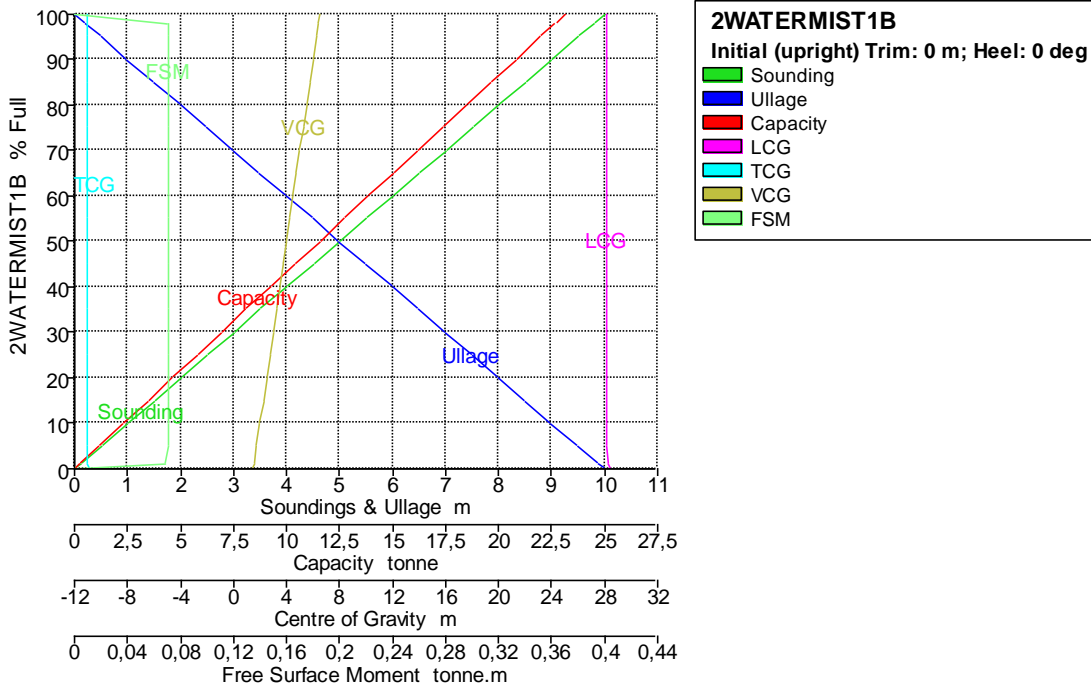
Fluid Type = Urea Specific gravity = 1,32
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
OUREA1C	1,492	0,000	100,000	73,384	96,867	73,899	0,000	0,876	0,000
	1,469	0,023	98,000	71,916	94,929	73,899	0,000	0,863	1880,261
	1,468	0,024	97,900	71,843	94,832	73,898	0,000	0,863	1879,571
	1,400	0,092	91,908	67,446	89,029	73,897	0,000	0,825	1835,684
	1,300	0,192	83,229	61,077	80,621	73,894	0,000	0,770	1762,763
	1,200	0,292	74,682	54,804	72,342	73,891	0,000	0,714	1678,330
	1,100	0,392	66,290	48,646	64,213	73,888	0,000	0,657	1581,171
	1,000	0,492	58,085	42,625	56,265	73,884	0,000	0,601	1470,445
	0,900	0,592	50,101	36,766	48,531	73,881	0,000	0,544	1345,949
	0,800	0,692	42,377	31,098	41,050	73,876	0,000	0,486	1208,224
	0,700	0,792	34,960	25,655	33,865	73,871	0,000	0,429	1058,391
	0,600	0,892	27,904	20,477	27,030	73,865	0,000	0,371	897,691
	0,500	0,992	21,278	15,614	20,611	73,857	0,000	0,312	727,481
	0,400	1,092	15,171	11,133	14,696	73,847	0,000	0,253	550,480
	0,300	1,192	9,708	7,124	9,404	73,832	0,000	0,194	371,953
	0,200	1,292	5,073	3,722	4,914	73,807	0,000	0,134	201,965
	0,100	1,392	1,578	1,158	1,529	73,748	0,000	0,072	61,191
	0,077	1,415	1,000	0,734	0,969	73,717	0,000	0,058	37,349
	0,000	1,492	0,000	0,000	0,000	72,066	0,000	0,008	0,000

Tank Calibrations - 2WATERMIST1B

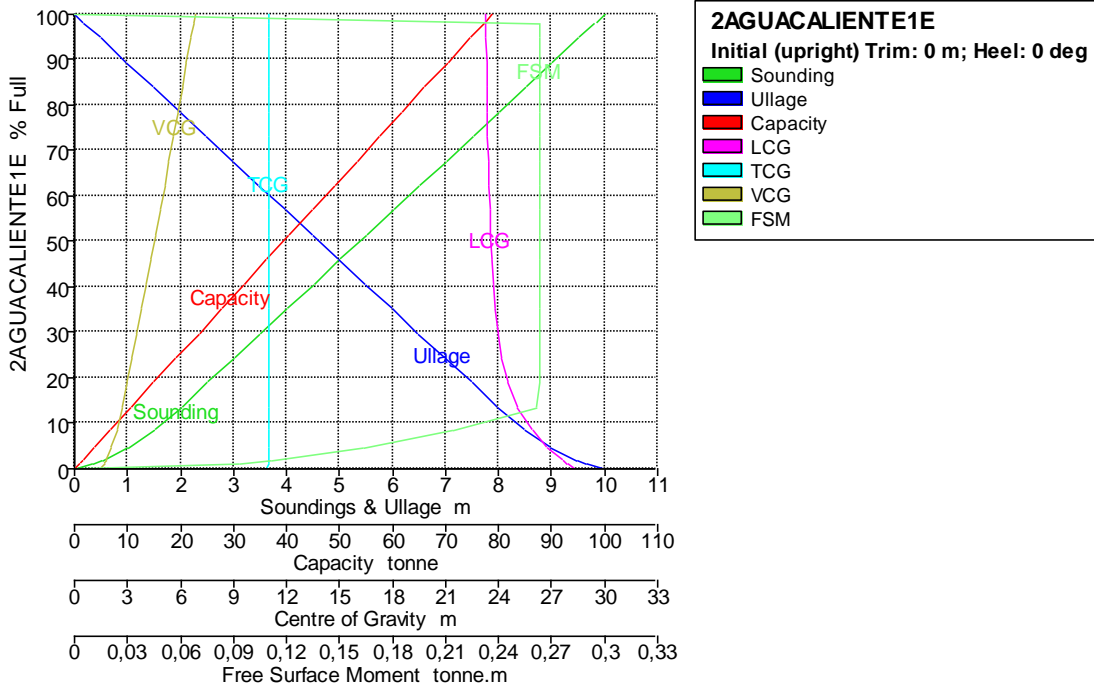
Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2WATERMIST1B	10,000	0,000	100,000	23,116	23,116	28,102	-11,004	6,506	0,000
	9,800	0,200	98,000	22,654	22,654	28,102	-11,004	6,406	0,072
	9,790	0,210	97,900	22,631	22,631	28,102	-11,004	6,401	0,072
	9,500	0,500	94,994	21,959	21,959	28,102	-11,004	6,256	0,072
	9,000	1,000	89,989	20,802	20,802	28,102	-11,004	6,006	0,072
	8,500	1,500	84,983	19,645	19,645	28,102	-11,004	5,756	0,072
	8,000	2,000	79,978	18,488	18,488	28,102	-11,004	5,506	0,072
	7,500	2,500	74,972	17,331	17,331	28,102	-11,004	5,256	0,072
	7,000	3,000	69,967	16,174	16,174	28,103	-11,004	5,006	0,072
	6,500	3,500	64,961	15,017	15,017	28,103	-11,004	4,755	0,072
	6,000	4,000	59,955	13,859	13,859	28,103	-11,004	4,505	0,072
	5,500	4,500	54,950	12,702	12,702	28,103	-11,004	4,255	0,072
	5,000	5,000	49,944	11,545	11,545	28,104	-11,004	4,005	0,072
	4,500	5,500	44,939	10,388	10,388	28,104	-11,004	3,755	0,072
	4,000	6,000	39,933	9,231	9,231	28,105	-11,004	3,505	0,072
	3,500	6,500	34,928	8,074	8,074	28,105	-11,004	3,255	0,072
	3,000	7,000	29,922	6,917	6,917	28,106	-11,004	3,005	0,072
	2,500	7,500	24,916	5,760	5,760	28,107	-11,004	2,755	0,072
	2,000	8,000	19,911	4,603	4,603	28,109	-11,004	2,505	0,072
	1,500	8,500	14,905	3,446	3,446	28,112	-11,004	2,255	0,072
	1,000	9,000	9,900	2,288	2,288	28,118	-11,003	2,005	0,072
	0,500	9,500	4,894	1,131	1,131	28,137	-11,002	1,755	0,072
	0,110	9,890	1,000	0,231	0,231	28,269	-10,995	1,557	0,068
	0,000	10,000	0,000	0,000	0,000	28,423	-10,951	1,500	0,000

Tank Calibrations - 2AGUACALIENTE1E

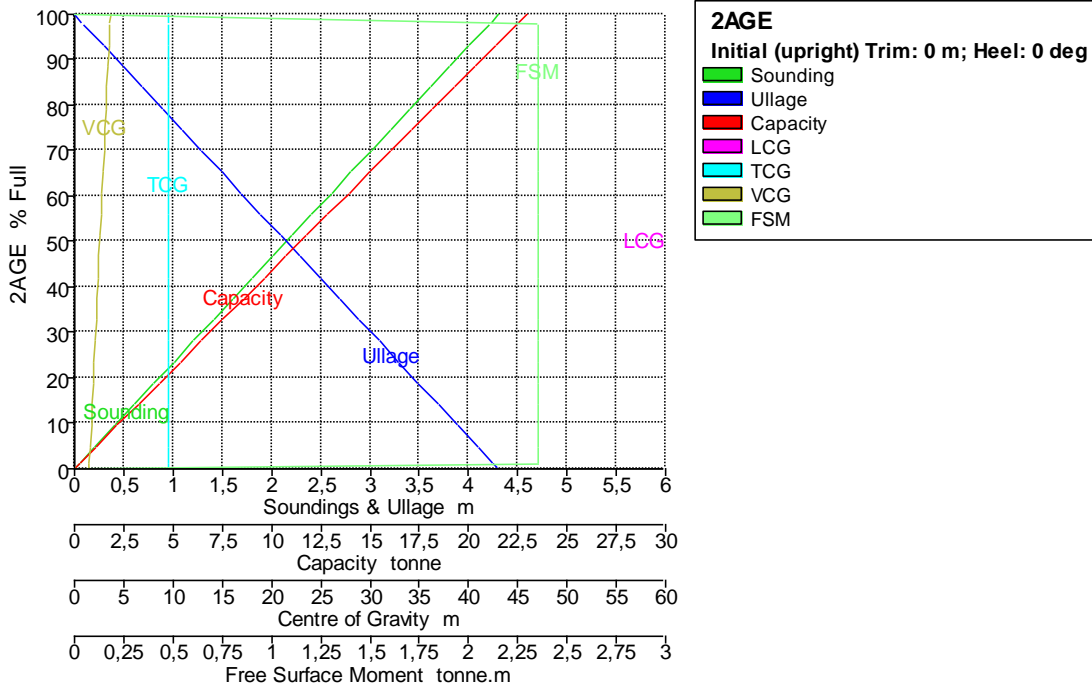
Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AGUACALIENTE1E	10,000	0,000	100,000	78,757	78,757	23,280	11,004	6,859	0,000
	9,815	0,185	98,000	77,182	77,182	23,285	11,004	6,766	0,264
	9,806	0,194	97,900	77,103	77,103	23,286	11,004	6,761	0,264
	9,500	0,500	94,587	74,494	74,494	23,296	11,004	6,607	0,264
	9,000	1,000	89,174	70,231	70,231	23,314	11,004	6,356	0,264
	8,500	1,500	83,761	65,968	65,968	23,334	11,004	6,104	0,264
	8,000	2,000	78,349	61,705	61,705	23,357	11,004	5,852	0,264
	7,500	2,500	72,936	57,442	57,442	23,383	11,004	5,600	0,264
	7,000	3,000	67,523	53,179	53,179	23,414	11,004	5,348	0,264
	6,500	3,500	62,110	48,916	48,916	23,450	11,004	5,095	0,264
	6,000	4,000	56,697	44,653	44,653	23,493	11,003	4,841	0,264
	5,500	4,500	51,284	40,390	40,390	23,545	11,003	4,587	0,264
	5,000	5,000	45,871	36,127	36,127	23,610	11,003	4,332	0,264
	4,500	5,500	40,458	31,864	31,864	23,691	11,003	4,075	0,264
	4,000	6,000	35,046	27,601	27,601	23,798	11,003	3,816	0,264
	3,500	6,500	29,633	23,338	23,338	23,944	11,003	3,554	0,264
	3,000	7,000	24,220	19,075	19,075	24,155	11,002	3,287	0,264
	2,500	7,500	18,807	14,812	14,812	24,487	11,001	3,010	0,264
	2,000	8,000	13,395	10,549	10,549	25,087	11,000	2,711	0,262
	1,500	8,500	8,456	6,660	6,660	25,963	10,999	2,391	0,214
	1,000	9,000	4,577	3,605	3,605	26,823	10,998	2,078	0,163
	0,500	9,500	1,756	1,383	1,383	27,652	10,996	1,776	0,111
	0,320	9,680	1,000	0,788	0,788	27,940	10,995	1,672	0,093
	0,000	10,000	0,000	0,000	0,000	28,423	10,951	1,500	0,000

Tank Calibrations - 2AGE

Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg

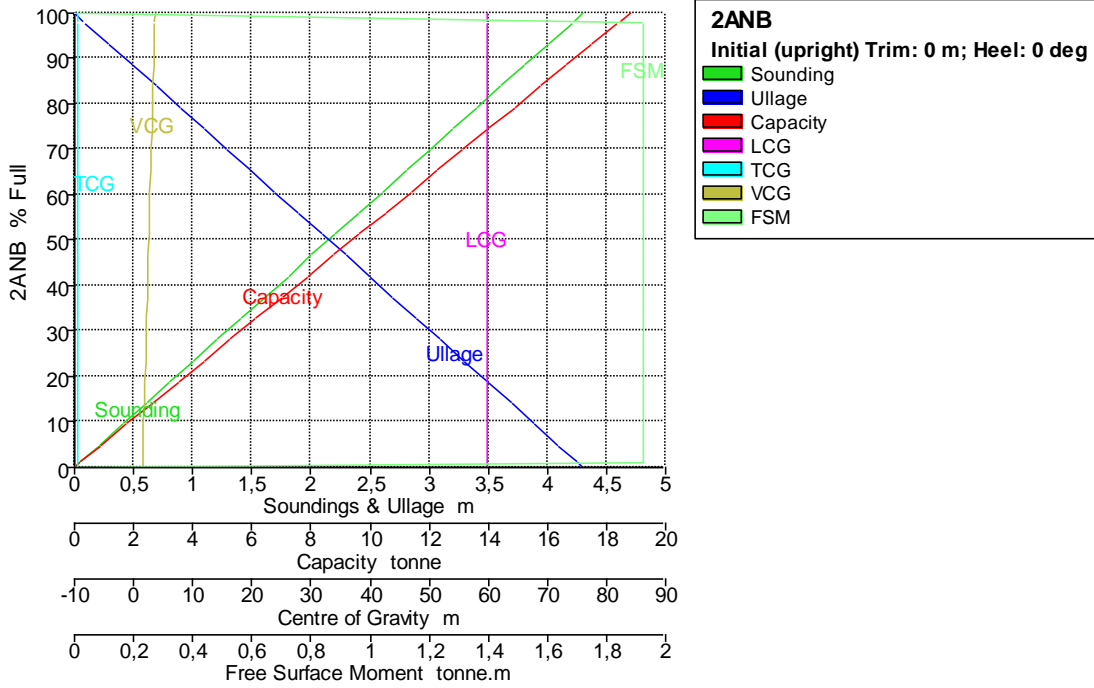


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AGE	4,300	0,000	100,000	22,945	22,945	59,960	9,550	3,650	0,000
	4,214	0,086	98,000	22,486	22,486	59,960	9,550	3,607	2,352
	4,210	0,090	97,900	22,463	22,463	59,960	9,550	3,605	2,352
	4,200	0,100	97,674	22,411	22,411	59,960	9,550	3,600	2,352
	4,000	0,300	93,023	21,344	21,344	59,960	9,550	3,500	2,352
	3,800	0,500	88,372	20,277	20,277	59,960	9,550	3,400	2,352
	3,600	0,700	83,721	19,210	19,210	59,960	9,550	3,300	2,352
	3,400	0,900	79,070	18,142	18,142	59,960	9,550	3,200	2,352
	3,200	1,100	74,419	17,075	17,075	59,960	9,550	3,100	2,352
	3,000	1,300	69,767	16,008	16,008	59,960	9,550	3,000	2,352
	2,800	1,500	65,116	14,941	14,941	59,960	9,550	2,900	2,352
	2,600	1,700	60,465	13,874	13,874	59,960	9,550	2,800	2,352
	2,400	1,900	55,814	12,806	12,806	59,960	9,550	2,700	2,352
	2,200	2,100	51,163	11,739	11,739	59,960	9,550	2,600	2,352
	2,000	2,300	46,512	10,672	10,672	59,960	9,550	2,500	2,352
	1,800	2,500	41,860	9,605	9,605	59,960	9,550	2,400	2,352
	1,600	2,700	37,209	8,538	8,538	59,960	9,550	2,300	2,352
	1,400	2,900	32,558	7,470	7,470	59,960	9,550	2,200	2,352
	1,200	3,100	27,907	6,403	6,403	59,960	9,550	2,100	2,352
	1,000	3,300	23,256	5,336	5,336	59,960	9,550	2,000	2,352
	0,800	3,500	18,605	4,269	4,269	59,960	9,550	1,900	2,352
	0,600	3,700	13,953	3,202	3,202	59,960	9,550	1,800	2,352
	0,400	3,900	9,302	2,134	2,134	59,960	9,550	1,700	2,352
	0,200	4,100	4,651	1,067	1,067	59,960	9,550	1,600	2,352
	0,043	4,257	1,000	0,229	0,229	59,960	9,550	1,522	2,352
	0,000	4,300	0,000	0,000	0,000	59,960	9,550	1,500	0,000

Tank Calibrations - 2ANB

Fluid Type = Specific gravity = 1
 Permeability = 100 %

Trim = 0 m (+ve by stern); Heel = 0 deg



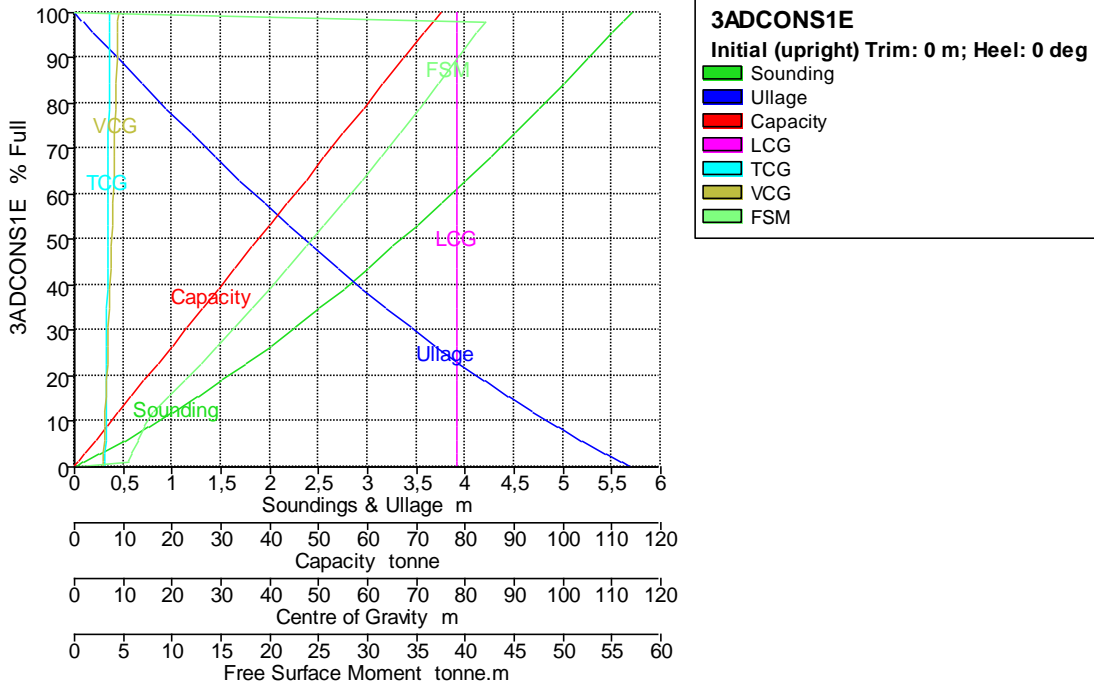
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2ANB	4,300	0,000	100,000	18,791	18,791	59,750	-9,550	3,650	0,000
	4,214	0,086	98,000	18,415	18,415	59,750	-9,550	3,607	1,926
	4,210	0,090	97,900	18,396	18,396	59,750	-9,550	3,605	1,926
	4,200	0,100	97,674	18,354	18,354	59,750	-9,550	3,600	1,926
	4,000	0,300	93,023	17,480	17,480	59,750	-9,550	3,500	1,926
	3,800	0,500	88,372	16,606	16,606	59,750	-9,550	3,400	1,926
	3,600	0,700	83,721	15,732	15,732	59,750	-9,550	3,300	1,926
	3,400	0,900	79,070	14,858	14,858	59,750	-9,550	3,200	1,926
	3,200	1,100	74,419	13,984	13,984	59,750	-9,550	3,100	1,926
	3,000	1,300	69,767	13,110	13,110	59,750	-9,550	3,000	1,926
	2,800	1,500	65,116	12,236	12,236	59,750	-9,550	2,900	1,926
	2,600	1,700	60,465	11,362	11,362	59,750	-9,550	2,800	1,926
	2,400	1,900	55,814	10,488	10,488	59,750	-9,550	2,700	1,926
	2,200	2,100	51,163	9,614	9,614	59,750	-9,550	2,600	1,926
	2,000	2,300	46,512	8,740	8,740	59,750	-9,550	2,500	1,926
	1,800	2,500	41,860	7,866	7,866	59,750	-9,550	2,400	1,926
	1,600	2,700	37,209	6,992	6,992	59,750	-9,550	2,300	1,926
	1,400	2,900	32,558	6,118	6,118	59,750	-9,550	2,200	1,926
	1,200	3,100	27,907	5,244	5,244	59,750	-9,550	2,100	1,926
	1,000	3,300	23,256	4,370	4,370	59,750	-9,550	2,000	1,926
	0,800	3,500	18,605	3,496	3,496	59,750	-9,550	1,900	1,926
	0,600	3,700	13,953	2,622	2,622	59,750	-9,550	1,800	1,926
	0,400	3,900	9,302	1,748	1,748	59,750	-9,550	1,700	1,926
	0,200	4,100	4,651	0,874	0,874	59,750	-9,550	1,600	1,926
	0,043	4,257	1,000	0,188	0,188	59,750	-9,550	1,522	1,926
	0,000	4,300	0,000	0,000	0,000	59,750	-9,550	1,500	0,000

Tank Calibrations - 3ADCONS1E

Fluid Type = AD Specific gravity = 1

Permeability = 100 %

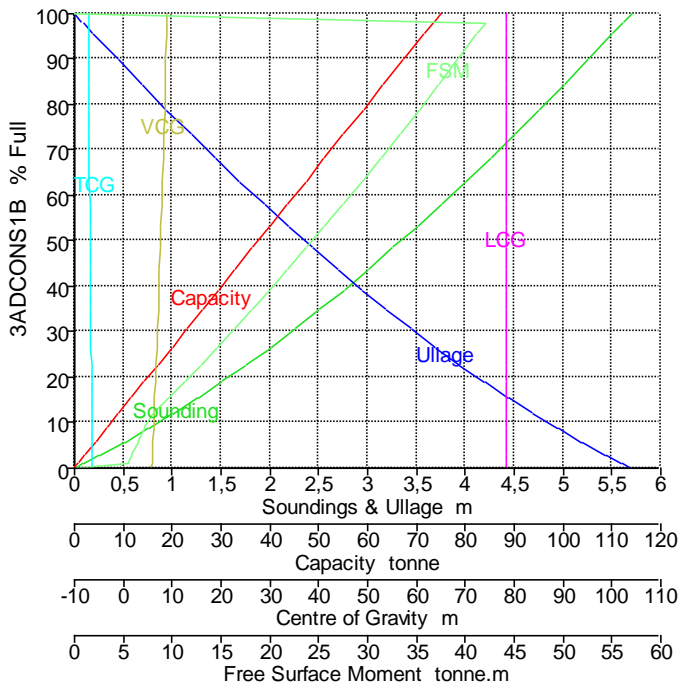
Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3ADCONS1E	5,700	0,000	100,000	74,866	74,866	78,328	7,156	8,995	0,000
	5,613	0,087	98,000	73,369	73,369	78,327	7,145	8,944	42,045
	5,609	0,091	97,900	73,294	73,294	78,327	7,144	8,942	42,010
	5,500	0,200	95,403	71,425	71,425	78,326	7,130	8,879	41,142
	5,250	0,450	89,743	67,187	67,187	78,324	7,097	8,734	39,152
	5,000	0,700	84,179	63,022	63,022	78,322	7,063	8,589	37,169
	4,750	0,950	78,716	58,932	58,932	78,320	7,029	8,444	35,194
	4,500	1,200	73,357	54,919	54,919	78,317	6,993	8,300	33,227
	4,250	1,450	68,104	50,987	50,987	78,315	6,957	8,155	31,273
	4,000	1,700	62,964	47,138	47,138	78,312	6,919	8,010	29,330
	3,750	1,950	57,938	43,376	43,376	78,310	6,881	7,866	27,403
	3,500	2,200	53,032	39,703	39,703	78,307	6,842	7,722	25,493
	3,250	2,450	48,252	36,124	36,124	78,304	6,802	7,578	23,603
	3,000	2,700	43,601	32,642	32,642	78,301	6,761	7,434	21,735
	2,750	2,950	39,086	29,262	29,262	78,297	6,719	7,290	19,893
	2,500	3,200	34,714	25,989	25,989	78,294	6,676	7,147	18,080
	2,250	3,450	30,491	22,828	22,828	78,290	6,632	7,005	16,299
	2,000	3,700	26,426	19,784	19,784	78,286	6,588	6,863	14,556
	1,750	3,950	22,527	16,865	16,865	78,282	6,544	6,723	12,855
	1,500	4,200	18,804	14,078	14,078	78,277	6,501	6,583	11,201
	1,250	4,450	15,269	11,432	11,432	78,273	6,461	6,446	9,601
	1,000	4,700	11,936	8,936	8,936	78,269	6,427	6,312	8,062
	0,750	4,950	8,790	6,581	6,581	78,266	6,401	6,182	7,129
	0,500	5,200	5,757	4,310	4,310	78,263	6,377	6,053	6,477
	0,250	5,450	2,829	2,118	2,118	78,260	6,354	5,926	5,889
	0,089	5,611	1,000	0,749	0,749	78,259	6,340	5,845	5,543
	0,000	5,700	0,000	0,000	0,000	78,258	6,332	5,800	0,000

Tank Calibrations - 3ADCONS1B

Fluid Type = AD Specific gravity = 1
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



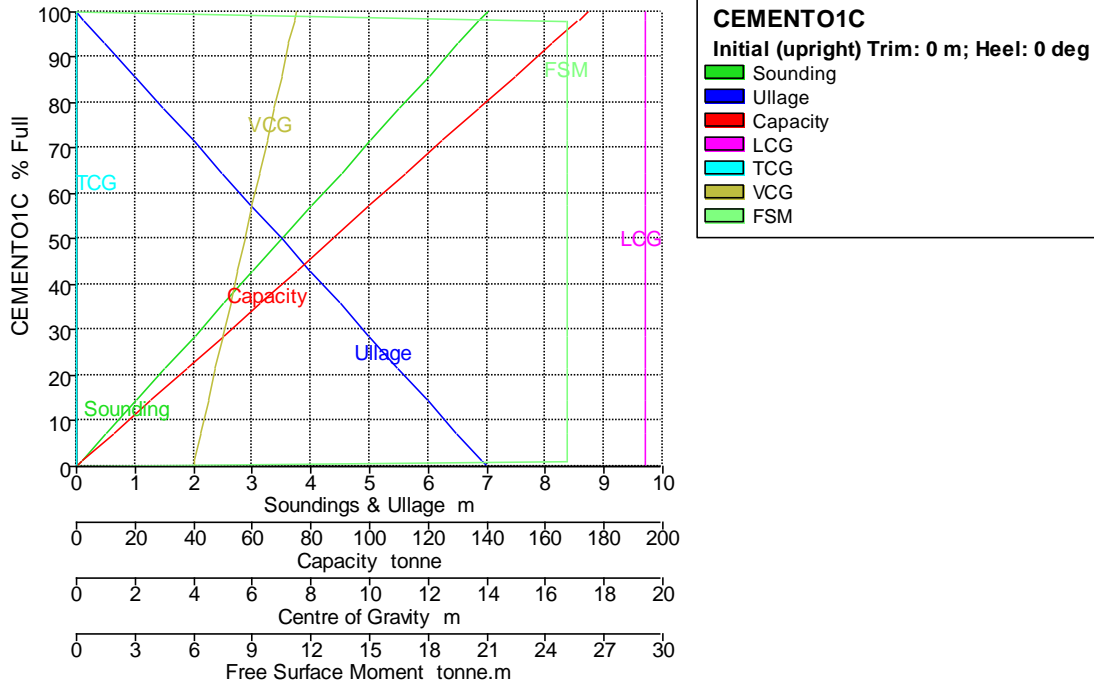
3ADCONS1B
 Initial (upright) Trim: 0 m; Heel: 0 deg

- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3ADCONS1B	5,700	0,000	100,000	74,866	74,866	78,328	-7,156	8,995	0,000
	5,613	0,087	98,000	73,369	73,369	78,327	-7,145	8,944	42,045
	5,609	0,091	97,900	73,294	73,294	78,327	-7,144	8,942	42,010
	5,500	0,200	95,403	71,425	71,425	78,326	-7,130	8,879	41,142
	5,250	0,450	89,743	67,187	67,187	78,324	-7,097	8,734	39,152
	5,000	0,700	84,179	63,022	63,022	78,322	-7,063	8,589	37,169
	4,750	0,950	78,716	58,932	58,932	78,320	-7,029	8,444	35,194
	4,500	1,200	73,357	54,919	54,919	78,317	-6,993	8,300	33,227
	4,250	1,450	68,104	50,987	50,987	78,315	-6,957	8,155	31,273
	4,000	1,700	62,964	47,138	47,138	78,312	-6,919	8,010	29,330
	3,750	1,950	57,938	43,376	43,376	78,310	-6,881	7,866	27,403
	3,500	2,200	53,032	39,703	39,703	78,307	-6,842	7,722	25,493
	3,250	2,450	48,252	36,124	36,124	78,304	-6,802	7,578	23,603
	3,000	2,700	43,601	32,642	32,642	78,301	-6,761	7,434	21,735
	2,750	2,950	39,086	29,262	29,262	78,297	-6,719	7,290	19,893
	2,500	3,200	34,714	25,989	25,989	78,294	-6,676	7,147	18,080
	2,250	3,450	30,491	22,828	22,828	78,290	-6,632	7,005	16,299
	2,000	3,700	26,426	19,784	19,784	78,286	-6,588	6,863	14,556
	1,750	3,950	22,527	16,865	16,865	78,282	-6,544	6,723	12,855
	1,500	4,200	18,804	14,078	14,078	78,277	-6,501	6,583	11,201
	1,250	4,450	15,269	11,432	11,432	78,273	-6,461	6,446	9,601
	1,000	4,700	11,936	8,936	8,936	78,269	-6,427	6,312	8,062
	0,750	4,950	8,790	6,581	6,581	78,266	-6,401	6,182	7,129
	0,500	5,200	5,757	4,310	4,310	78,263	-6,377	6,053	6,477
	0,250	5,450	2,829	2,118	2,118	78,260	-6,354	5,926	5,889
	0,089	5,611	1,000	0,749	0,749	78,259	-6,340	5,845	5,543
	0,000	5,700	0,000	0,000	0,000	78,258	-6,332	5,800	0,000

Tank Calibrations - CEMENTO1C

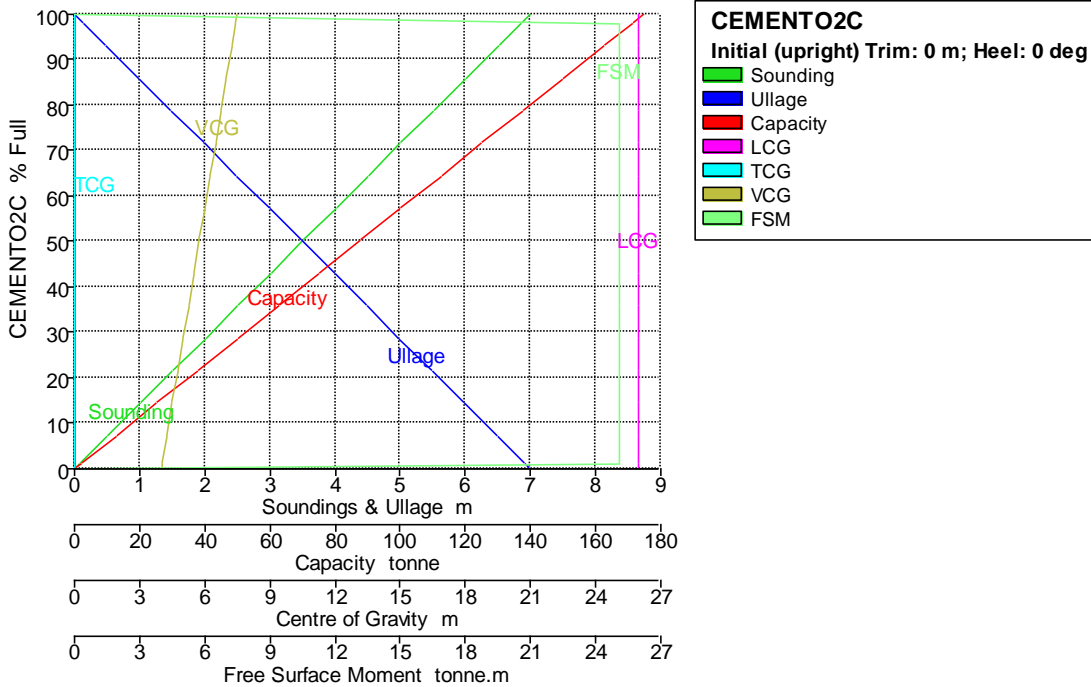
Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO1C	7,000	0,000	100,000	87,245	174,490	19,405	0,000	7,500	0,000
	6,860	0,140	98,000	85,500	171,000	19,405	0,000	7,430	25,114
	6,853	0,147	97,900	85,413	170,826	19,405	0,000	7,426	25,114
	6,500	0,500	92,857	81,013	162,026	19,405	0,000	7,250	25,114
	6,000	1,000	85,714	74,781	149,563	19,405	0,000	7,000	25,114
	5,500	1,500	78,571	68,550	137,099	19,405	0,000	6,750	25,114
	5,000	2,000	71,429	62,318	124,636	19,405	0,000	6,500	25,114
	4,500	2,500	64,286	56,086	112,172	19,405	0,000	6,250	25,114
	4,000	3,000	57,143	49,854	99,708	19,405	0,000	6,000	25,114
	3,500	3,500	50,000	43,622	87,245	19,405	0,000	5,750	25,114
	3,000	4,000	42,857	37,391	74,781	19,405	0,000	5,500	25,114
	2,500	4,500	35,714	31,159	62,318	19,405	0,000	5,250	25,114
	2,000	5,000	28,571	24,927	49,854	19,405	0,000	5,000	25,114
	1,500	5,500	21,429	18,695	37,391	19,405	0,000	4,750	25,114
	1,000	6,000	14,286	12,464	24,927	19,405	0,000	4,500	25,114
	0,500	6,500	7,143	6,232	12,464	19,405	0,000	4,250	25,114
	0,070	6,930	1,000	0,872	1,745	19,405	0,000	4,035	25,114
	0,000	7,000	0,000	0,000	0,000	19,405	0,000	4,000	0,000

Tank Calibrations - CEMENTO2C

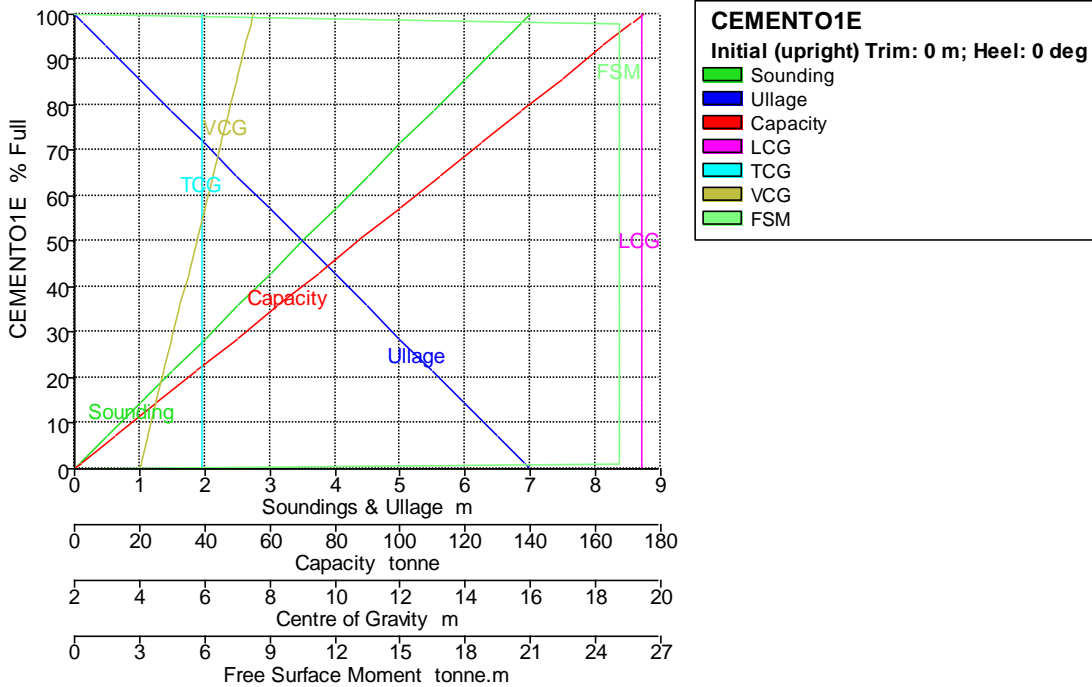
Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO2C	7,000	0,000	100,000	87,416	174,832	25,999	0,000	7,500	0,000
	6,860	0,140	98,000	85,667	171,335	25,999	0,000	7,430	25,112
	6,853	0,147	97,900	85,580	171,160	25,999	0,000	7,426	25,112
	6,500	0,500	92,857	81,172	162,344	25,999	0,000	7,250	25,112
	6,000	1,000	85,714	74,928	149,856	25,999	0,000	7,000	25,112
	5,500	1,500	78,571	68,684	137,368	25,999	0,000	6,750	25,112
	5,000	2,000	71,429	62,440	124,880	25,999	0,000	6,500	25,112
	4,500	2,500	64,286	56,196	112,392	25,999	0,000	6,250	25,112
	4,000	3,000	57,143	49,952	99,904	25,999	0,000	6,000	25,112
	3,500	3,500	50,000	43,708	87,416	25,999	0,000	5,750	25,112
	3,000	4,000	42,857	37,464	74,928	25,999	0,000	5,500	25,112
	2,500	4,500	35,714	31,220	62,440	25,999	0,000	5,250	25,112
	2,000	5,000	28,571	24,976	49,952	25,999	0,000	5,000	25,112
	1,500	5,500	21,429	18,732	37,464	25,999	0,000	4,750	25,112
	1,000	6,000	14,286	12,488	24,976	25,999	0,000	4,500	25,112
	0,500	6,500	7,143	6,244	12,488	25,999	0,000	4,250	25,112
	0,070	6,930	1,000	0,874	1,748	25,999	0,000	4,035	25,112
	0,000	7,000	0,000	0,000	0,000	25,999	0,000	4,000	0,000

Tank Calibrations - CEMENTO1E

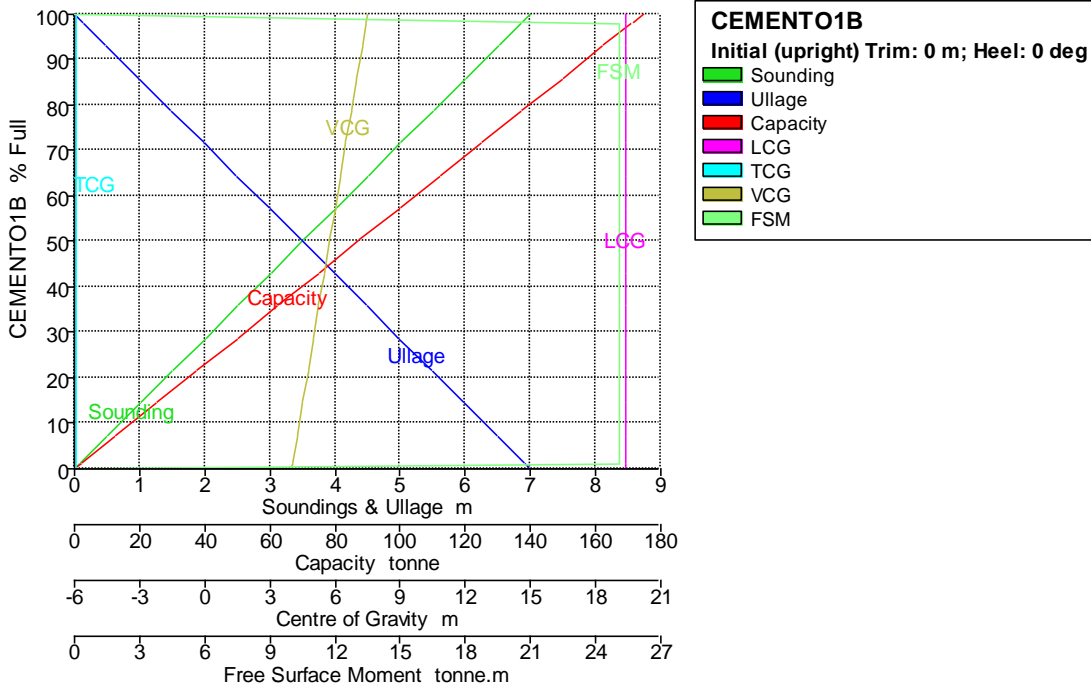
Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO1E	7,000	0,000	100,000	87,245	174,490	19,405	5,900	7,500	0,000
	6,860	0,140	98,000	85,500	171,000	19,405	5,900	7,430	25,114
	6,853	0,147	97,900	85,413	170,826	19,405	5,900	7,426	25,114
	6,500	0,500	92,857	81,013	162,026	19,405	5,900	7,250	25,114
	6,000	1,000	85,714	74,781	149,563	19,405	5,900	7,000	25,114
	5,500	1,500	78,571	68,550	137,099	19,405	5,900	6,750	25,114
	5,000	2,000	71,429	62,318	124,636	19,405	5,900	6,500	25,114
	4,500	2,500	64,286	56,086	112,172	19,405	5,900	6,250	25,114
	4,000	3,000	57,143	49,854	99,708	19,405	5,900	6,000	25,114
	3,500	3,500	50,000	43,622	87,245	19,405	5,900	5,750	25,114
	3,000	4,000	42,857	37,391	74,781	19,405	5,900	5,500	25,114
	2,500	4,500	35,714	31,159	62,318	19,405	5,900	5,250	25,114
	2,000	5,000	28,571	24,927	49,854	19,405	5,900	5,000	25,114
	1,500	5,500	21,429	18,695	37,391	19,405	5,900	4,750	25,114
	1,000	6,000	14,286	12,464	24,927	19,405	5,900	4,500	25,114
	0,500	6,500	7,143	6,232	12,464	19,405	5,900	4,250	25,114
	0,070	6,930	1,000	0,872	1,745	19,405	5,900	4,035	25,114
	0,000	7,000	0,000	0,000	0,000	19,405	5,900	4,000	0,000

Tank Calibrations - CEMENTO1B

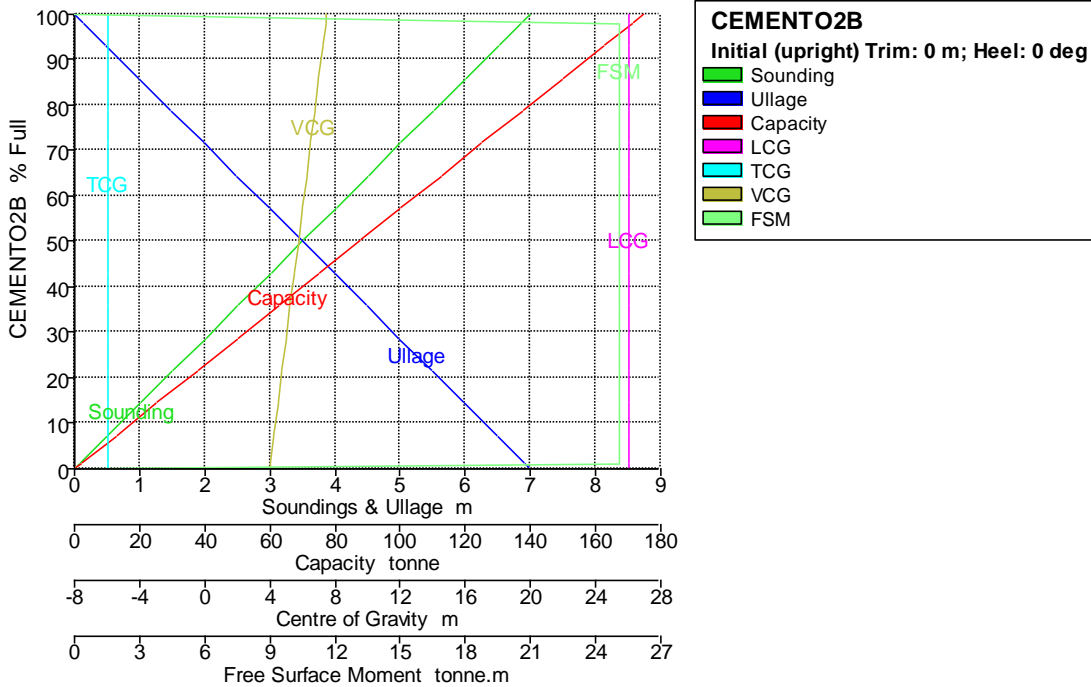
Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO1B	7,000	0,000	100,000	87,245	174,490	19,405	-5,900	7,500	0,000
	6,860	0,140	98,000	85,500	171,000	19,405	-5,900	7,430	25,114
	6,853	0,147	97,900	85,413	170,826	19,405	-5,900	7,426	25,114
	6,500	0,500	92,857	81,013	162,026	19,405	-5,900	7,250	25,114
	6,000	1,000	85,714	74,781	149,563	19,405	-5,900	7,000	25,114
	5,500	1,500	78,571	68,550	137,099	19,405	-5,900	6,750	25,114
	5,000	2,000	71,429	62,318	124,636	19,405	-5,900	6,500	25,114
	4,500	2,500	64,286	56,086	112,172	19,405	-5,900	6,250	25,114
	4,000	3,000	57,143	49,854	99,708	19,405	-5,900	6,000	25,114
	3,500	3,500	50,000	43,622	87,245	19,405	-5,900	5,750	25,114
	3,000	4,000	42,857	37,391	74,781	19,405	-5,900	5,500	25,114
	2,500	4,500	35,714	31,159	62,318	19,405	-5,900	5,250	25,114
	2,000	5,000	28,571	24,927	49,854	19,405	-5,900	5,000	25,114
	1,500	5,500	21,429	18,695	37,391	19,405	-5,900	4,750	25,114
	1,000	6,000	14,286	12,464	24,927	19,405	-5,900	4,500	25,114
	0,500	6,500	7,143	6,232	12,464	19,405	-5,900	4,250	25,114
	0,070	6,930	1,000	0,872	1,745	19,405	-5,900	4,035	25,114
	0,000	7,000	0,000	0,000	0,000	19,405	-5,900	4,000	0,000

Tank Calibrations - CEMENTO2B

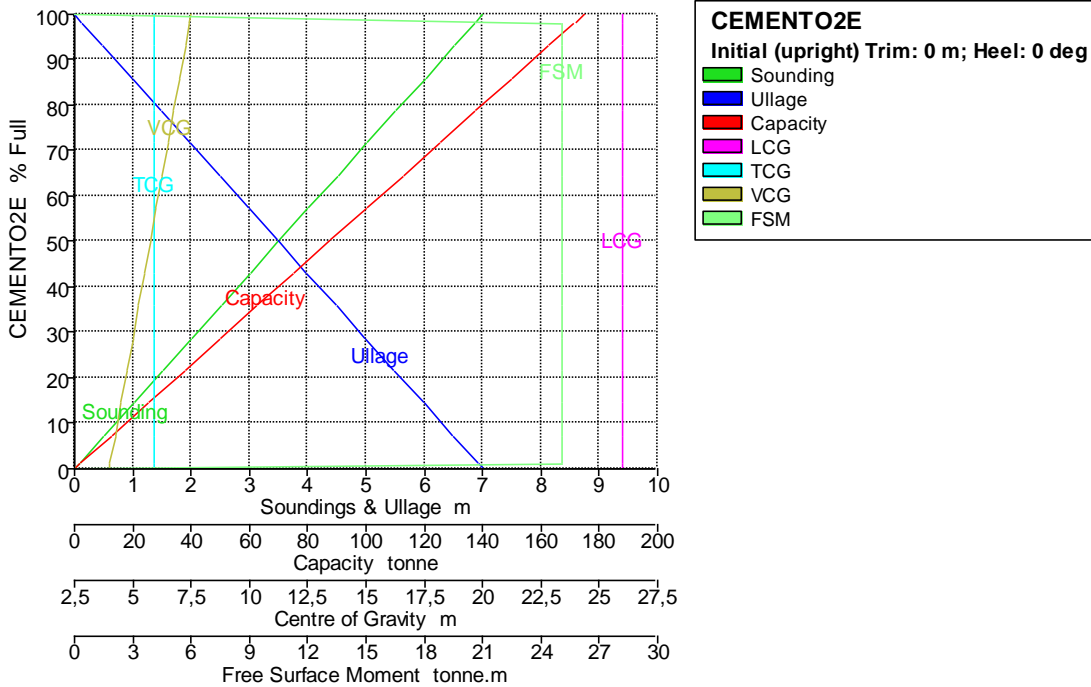
Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO2B	7,000	0,000	100,000	87,416	174,832	25,999	-5,900	7,500	0,000
	6,860	0,140	98,000	85,667	171,335	25,999	-5,900	7,430	25,112
	6,853	0,147	97,900	85,580	171,160	25,999	-5,900	7,426	25,112
	6,500	0,500	92,857	81,172	162,344	25,999	-5,900	7,250	25,112
	6,000	1,000	85,714	74,928	149,856	25,999	-5,900	7,000	25,112
	5,500	1,500	78,571	68,684	137,368	25,999	-5,900	6,750	25,112
	5,000	2,000	71,429	62,440	124,880	25,999	-5,900	6,500	25,112
	4,500	2,500	64,286	56,196	112,392	25,999	-5,900	6,250	25,112
	4,000	3,000	57,143	49,952	99,904	25,999	-5,900	6,000	25,112
	3,500	3,500	50,000	43,708	87,416	25,999	-5,900	5,750	25,112
	3,000	4,000	42,857	37,464	74,928	25,999	-5,900	5,500	25,112
	2,500	4,500	35,714	31,220	62,440	25,999	-5,900	5,250	25,112
	2,000	5,000	28,571	24,976	49,952	25,999	-5,900	5,000	25,112
	1,500	5,500	21,429	18,732	37,464	25,999	-5,900	4,750	25,112
	1,000	6,000	14,286	12,488	24,976	25,999	-5,900	4,500	25,112
	0,500	6,500	7,143	6,244	12,488	25,999	-5,900	4,250	25,112
	0,070	6,930	1,000	0,874	1,748	25,999	-5,900	4,035	25,112
	0,000	7,000	0,000	0,000	0,000	25,999	-5,900	4,000	0,000

Tank Calibrations - CEMENTO2E

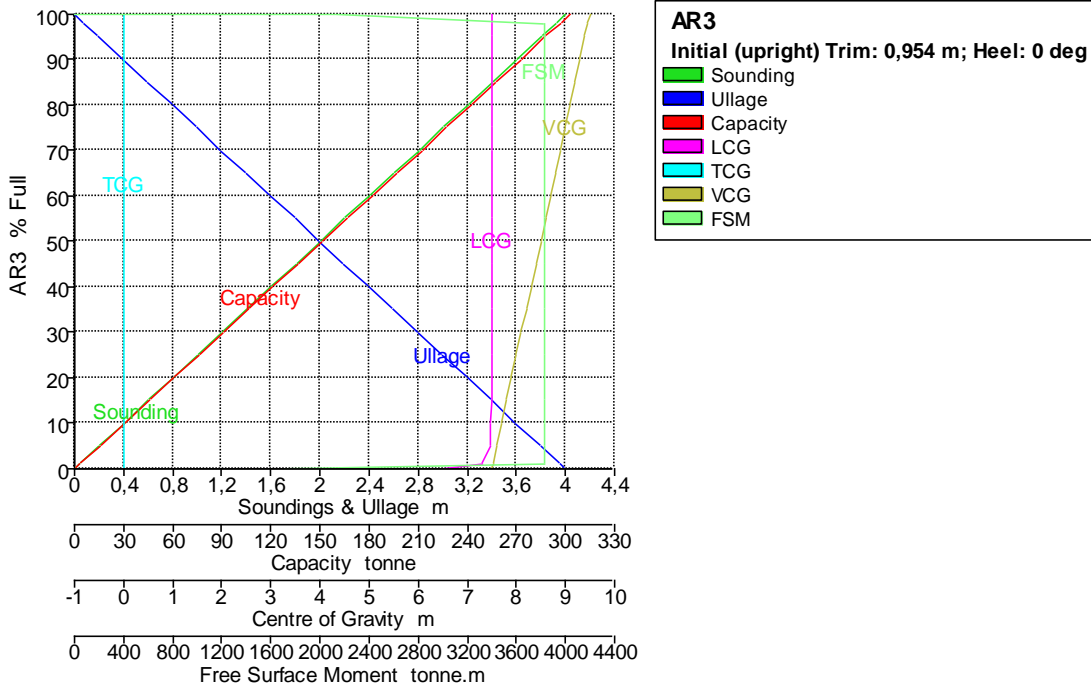
Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO2E	7,000	0,000	100,000	87,416	174,832	25,999	5,900	7,500	0,000
	6,860	0,140	98,000	85,667	171,335	25,999	5,900	7,430	25,112
	6,853	0,147	97,900	85,580	171,160	25,999	5,900	7,426	25,112
	6,500	0,500	92,857	81,172	162,344	25,999	5,900	7,250	25,112
	6,000	1,000	85,714	74,928	149,856	25,999	5,900	7,000	25,112
	5,500	1,500	78,571	68,684	137,368	25,999	5,900	6,750	25,112
	5,000	2,000	71,429	62,440	124,880	25,999	5,900	6,500	25,112
	4,500	2,500	64,286	56,196	112,392	25,999	5,900	6,250	25,112
	4,000	3,000	57,143	49,952	99,904	25,999	5,900	6,000	25,112
	3,500	3,500	50,000	43,708	87,416	25,999	5,900	5,750	25,112
	3,000	4,000	42,857	37,464	74,928	25,999	5,900	5,500	25,112
	2,500	4,500	35,714	31,220	62,440	25,999	5,900	5,250	25,112
	2,000	5,000	28,571	24,976	49,952	25,999	5,900	5,000	25,112
	1,500	5,500	21,429	18,732	37,464	25,999	5,900	4,750	25,112
	1,000	6,000	14,286	12,488	24,976	25,999	5,900	4,500	25,112
	0,500	6,500	7,143	6,244	12,488	25,999	5,900	4,250	25,112
	0,070	6,930	1,000	0,874	1,748	25,999	5,900	4,035	25,112
	0,000	7,000	0,000	0,000	0,000	25,999	5,900	4,000	0,000

Tank Calibrations - AR3

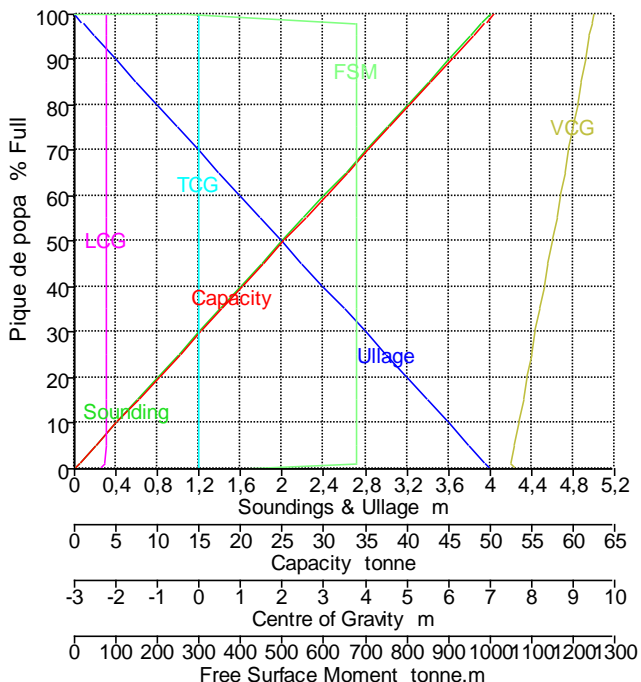
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
AR3	4,000	0,000	100,000	295,412	302,798	7,500	0,000	9,500	0,000
	4,000	0,000	99,898	295,111	302,488	7,499	0,000	9,498	2127,358
	3,921	0,079	98,000	289,504	296,742	7,498	0,000	9,460	3823,197
	3,917	0,083	97,900	289,209	296,439	7,498	0,000	9,458	3823,197
	3,800	0,200	94,984	280,593	287,608	7,498	0,000	9,400	3823,203
	3,600	0,400	89,984	265,823	272,468	7,498	0,000	9,300	3823,211
	3,400	0,600	84,984	251,052	257,328	7,498	0,000	9,200	3823,219
	3,200	0,800	79,984	236,281	242,188	7,498	0,000	9,100	3823,226
	3,000	1,000	74,984	221,511	227,049	7,497	0,000	9,000	3823,232
	2,800	1,200	69,984	206,740	211,909	7,497	0,000	8,900	3823,237
	2,600	1,400	64,984	191,969	196,769	7,497	0,000	8,800	3823,241
	2,400	1,600	59,984	177,199	181,629	7,497	0,000	8,700	3823,244
	2,200	1,800	54,984	162,428	166,489	7,497	0,000	8,600	3823,244
	2,000	2,000	49,984	147,657	151,349	7,496	0,000	8,500	3823,244
	1,800	2,200	44,984	132,887	136,209	7,496	0,000	8,400	3823,241
	1,600	2,400	39,983	118,116	121,069	7,495	0,000	8,300	3823,237
	1,400	2,600	34,983	103,346	105,929	7,495	0,000	8,200	3823,230
	1,200	2,800	29,983	88,575	90,789	7,494	0,000	8,100	3823,220
	1,000	3,000	24,983	73,804	75,649	7,492	0,000	8,000	3823,206
	0,800	3,200	19,983	59,034	60,509	7,491	0,000	7,900	3823,188
	0,600	3,400	14,983	44,263	45,370	7,487	0,000	7,800	3823,163
	0,400	3,600	9,984	29,493	30,230	7,481	0,000	7,700	3823,130
	0,200	3,800	4,984	14,722	15,090	7,462	0,000	7,600	3823,084
	0,041	3,959	1,000	2,954	3,028	7,312	0,000	7,521	3823,029
	0,000	4,000	0,086	0,253	0,260	6,478	0,000	7,487	1695,766

Tank Calibrations - Pique de popa

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



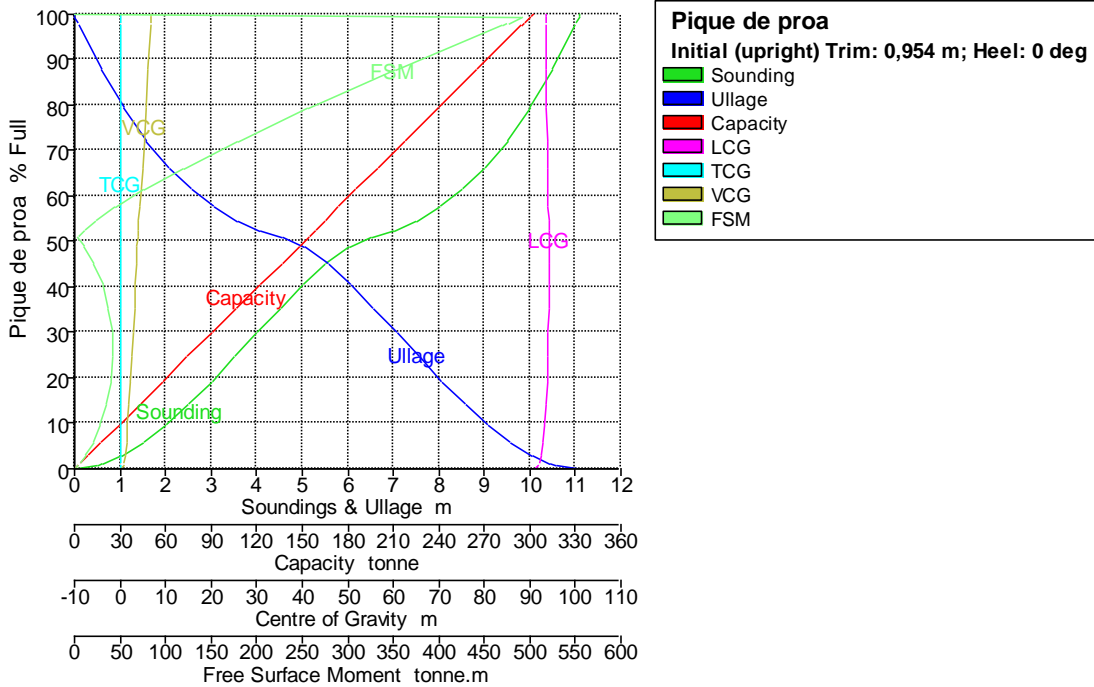
Pique de popa
 Initial (upright) Trim: 0,954 m; Heel: 0 deg

- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Pique de popa	4,000	0,000	100,000	49,162	50,391	-2,250	0,000	9,500	0,000
	4,000	0,000	99,990	49,157	50,386	-2,250	0,000	9,500	267,713
	3,919	0,081	98,000	48,179	49,383	-2,250	0,000	9,460	680,138
	3,915	0,085	97,900	48,130	49,333	-2,250	0,000	9,458	680,138
	3,800	0,200	95,034	46,721	47,889	-2,250	0,000	9,401	680,138
	3,600	0,400	90,034	44,263	45,369	-2,250	0,000	9,301	680,138
	3,400	0,600	85,034	41,805	42,850	-2,250	0,000	9,201	680,138
	3,200	0,800	80,034	39,346	40,330	-2,250	0,000	9,101	680,138
	3,000	1,000	75,034	36,888	37,811	-2,250	0,000	9,001	680,138
	2,800	1,200	70,034	34,430	35,291	-2,250	0,000	8,901	680,138
	2,600	1,400	65,034	31,972	32,771	-2,250	0,000	8,801	680,138
	2,400	1,600	60,034	29,514	30,252	-2,250	0,000	8,701	680,139
	2,200	1,800	55,034	27,056	27,732	-2,250	0,000	8,601	680,139
	2,000	2,000	50,034	24,598	25,213	-2,250	0,000	8,501	680,139
	1,800	2,200	45,034	22,140	22,693	-2,250	0,000	8,401	680,139
	1,600	2,400	40,034	19,681	20,173	-2,250	0,000	8,301	680,139
	1,400	2,600	35,034	17,223	17,654	-2,250	0,000	8,201	680,139
	1,200	2,800	30,034	14,765	15,134	-2,250	0,000	8,101	680,139
	1,000	3,000	25,034	12,307	12,615	-2,250	0,000	8,001	680,139
	0,800	3,200	20,033	9,849	10,095	-2,250	0,000	7,901	680,140
	0,600	3,400	15,033	7,391	7,576	-2,250	0,000	7,801	680,140
	0,400	3,600	10,033	4,933	5,056	-2,250	0,000	7,701	680,140
	0,200	3,800	5,033	2,474	2,536	-2,250	0,000	7,601	680,140
	0,039	3,961	1,000	0,492	0,504	-2,253	0,000	7,520	679,139
	0,000	4,000	0,036	0,018	0,018	-2,346	0,000	7,611	411,098

Tank Calibrations - Pique de proa

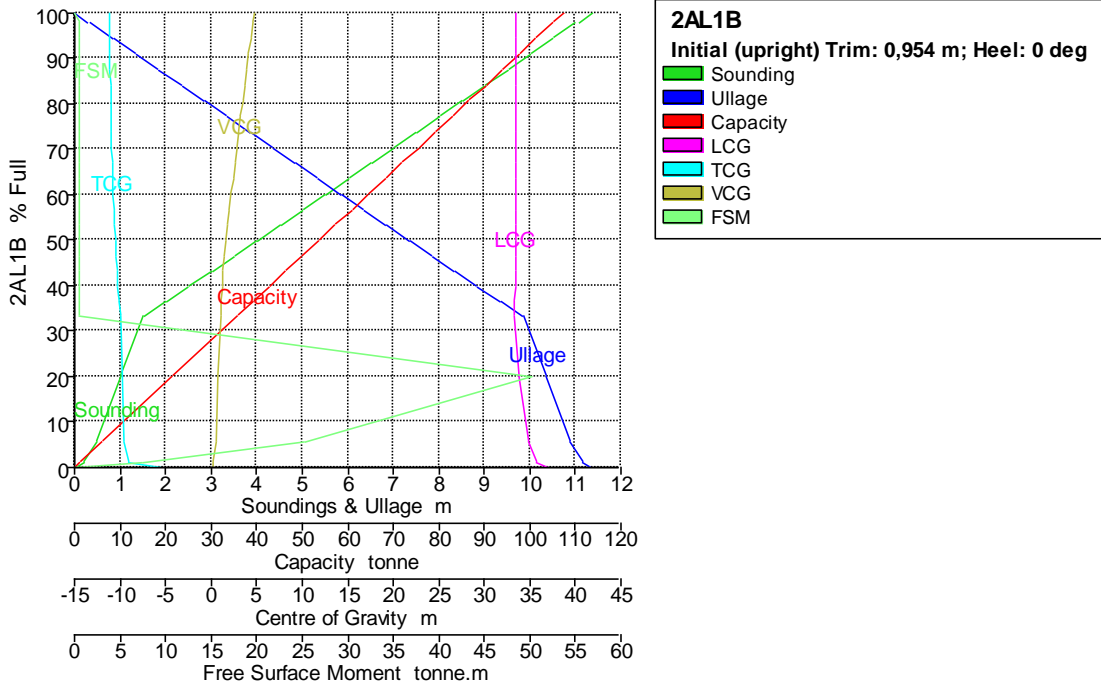
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Pique de proa	11,089	0,000	100,000	294,566	301,930	93,673	0,000	6,855	0,000
	11,089	0,000	99,325	292,577	299,891	93,663	0,000	6,824	491,306
	11,027	0,062	98,000	288,675	295,892	93,663	0,000	6,762	475,167
	11,023	0,067	97,900	288,380	295,590	93,663	0,000	6,757	473,952
	11,000	0,089	97,419	286,965	294,139	93,663	0,000	6,734	468,117
	10,500	0,589	87,625	258,113	264,565	93,675	0,000	6,242	351,500
	10,000	1,089	79,205	233,313	239,145	93,711	0,000	5,774	255,737
	9,500	1,589	72,072	212,300	217,608	93,769	0,000	5,342	179,138
	9,000	2,089	66,135	194,812	199,682	93,845	0,000	4,955	119,824
	8,500	2,589	61,298	180,564	185,078	93,934	0,000	4,625	75,638
	8,000	3,089	57,465	169,273	173,505	94,029	0,000	4,356	44,337
	7,500	3,589	54,536	160,646	164,662	94,121	0,000	4,152	23,558
	7,000	4,089	52,410	154,383	158,243	94,203	0,000	4,010	10,911
	6,500	4,589	50,980	150,169	153,923	94,268	0,000	3,931	4,118
	6,000	5,089	48,863	143,933	147,531	94,285	0,000	3,817	9,794
	5,500	5,589	45,079	132,787	136,107	94,264	0,000	3,625	21,073
	5,000	6,089	40,407	119,024	122,000	94,215	0,000	3,396	30,716
	4,500	6,589	35,246	103,822	106,417	94,141	0,000	3,144	37,607
	4,000	7,089	29,854	87,941	90,140	94,042	0,000	2,877	41,525
	3,500	7,589	24,423	71,941	73,740	93,915	0,000	2,599	42,439
	3,000	8,089	19,119	56,318	57,726	93,754	0,000	2,312	40,427
	2,500	8,589	14,109	41,562	42,601	93,548	0,000	2,017	35,712
	2,000	9,089	9,577	28,211	28,917	93,289	0,000	1,716	28,796
	1,500	9,589	5,705	16,806	17,226	92,969	0,000	1,410	20,510
	1,000	10,089	2,663	7,843	8,039	92,557	0,000	1,100	11,756
	0,612	10,477	1,000	2,946	3,019	92,121	0,000	0,848	5,319
	0,500	10,589	0,654	1,925	1,973	91,963	0,000	0,770	3,669
	0,000	11,089	0,000	0,000	0,000	90,624	0,000	0,411	0,000

Tank Calibrations - 2AL1B

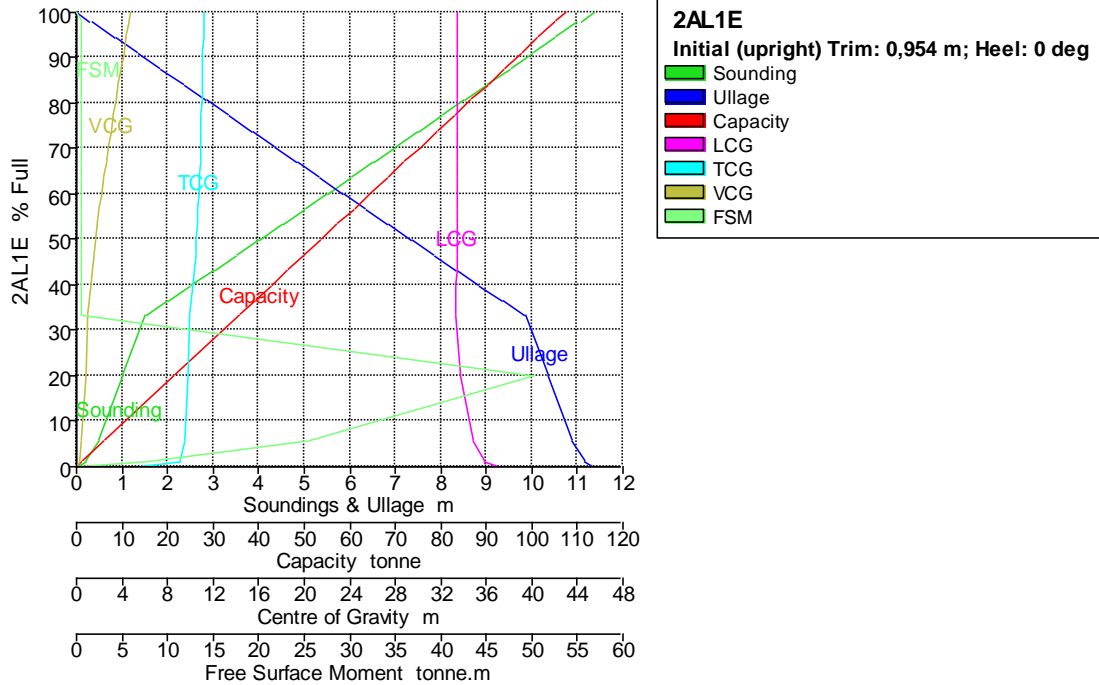
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL1B	11,367	0,000	100,000	104,651	107,268	33,514	-11,172	4,764	0,000
	11,040	0,328	98,000	102,558	105,122	33,509	-11,159	4,629	0,609
	11,025	0,342	97,900	102,454	105,015	33,509	-11,158	4,623	0,609
	11,000	0,367	97,729	102,275	104,832	33,509	-11,157	4,611	0,609
	10,500	0,867	94,300	98,686	101,154	33,506	-11,134	4,382	0,609
	10,000	1,367	90,871	95,097	97,475	33,502	-11,108	4,154	0,609
	9,500	1,867	87,441	91,508	93,796	33,498	-11,081	3,928	0,610
	9,000	2,367	84,011	87,919	90,117	33,494	-11,051	3,704	0,610
	8,500	2,867	80,581	84,330	86,438	33,490	-11,019	3,482	0,609
	8,000	3,367	77,152	80,741	82,759	33,485	-10,984	3,262	0,609
	7,500	3,867	73,724	77,153	79,082	33,479	-10,945	3,046	0,609
	7,000	4,367	70,297	73,566	75,405	33,474	-10,903	2,833	0,607
	6,500	4,867	66,873	69,983	71,733	33,467	-10,857	2,623	0,605
	6,000	5,367	63,452	66,403	68,063	33,460	-10,806	2,419	0,604
	5,500	5,867	60,033	62,825	64,396	33,452	-10,749	2,220	0,603
	5,000	6,367	56,618	59,251	60,733	33,443	-10,685	2,027	0,601
	4,500	6,867	53,208	55,683	57,075	33,432	-10,614	1,841	0,597
	4,000	7,367	49,806	52,123	53,426	33,421	-10,532	1,665	0,592
	3,500	7,867	46,417	48,576	49,790	33,407	-10,440	1,501	0,584
	3,000	8,367	43,047	45,049	46,175	33,390	-10,333	1,350	0,572
	2,500	8,867	39,708	41,554	42,593	33,371	-10,210	1,218	0,553
	2,000	9,367	36,421	38,115	39,068	33,347	-10,068	1,110	0,519
	1,500	9,867	33,241	34,787	35,657	33,316	-9,905	1,033	0,451
	1,000	10,367	19,916	20,843	21,364	33,795	-9,769	0,812	50,203
	0,500	10,867	5,660	5,923	6,071	34,903	-9,521	0,486	25,260
	0,207	11,160	1,000	1,047	1,073	35,787	-9,105	0,289	7,350
	0,000	11,367	0,000	0,000	0,000	37,173	-5,335	0,133	0,000

Tank Calibrations - 2AL1E

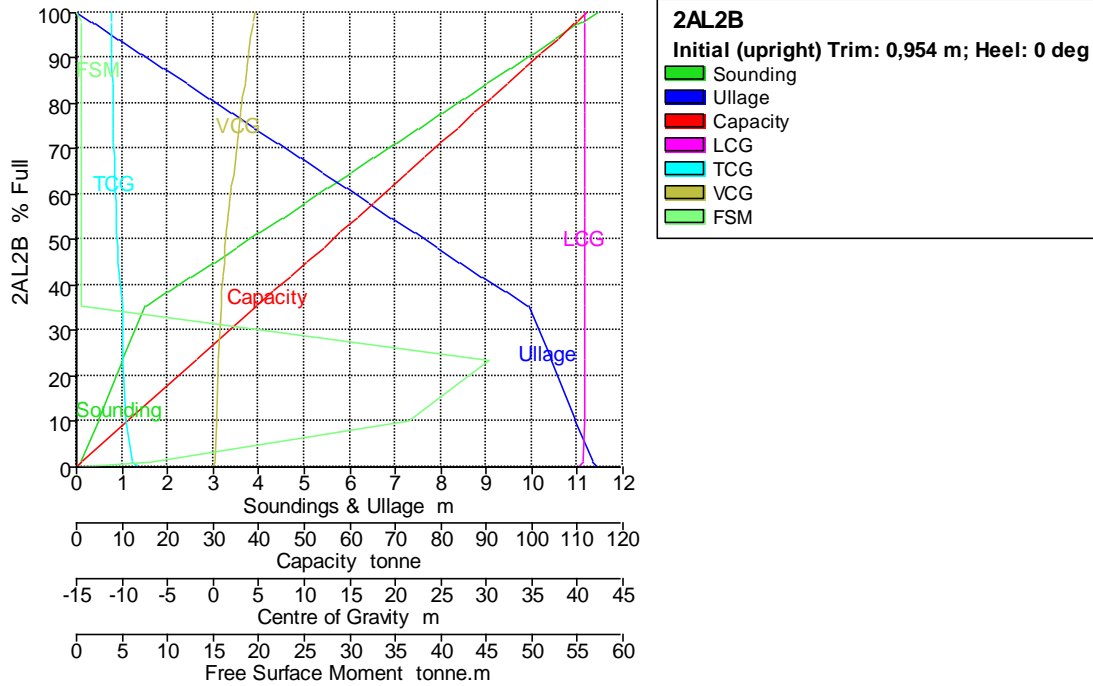
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL1E	11,367	0,000	100,000	104,651	107,268	33,514	11,172	4,764	0,000
	11,040	0,328	98,000	102,558	105,122	33,509	11,159	4,629	0,609
	11,025	0,342	97,900	102,454	105,015	33,509	11,158	4,623	0,609
	11,000	0,367	97,729	102,275	104,832	33,509	11,157	4,611	0,609
	10,500	0,867	94,300	98,686	101,154	33,506	11,134	4,382	0,609
	10,000	1,367	90,871	95,097	97,475	33,502	11,108	4,154	0,609
	9,500	1,867	87,441	91,508	93,796	33,498	11,081	3,928	0,610
	9,000	2,367	84,011	87,919	90,117	33,494	11,051	3,704	0,610
	8,500	2,867	80,581	84,330	86,438	33,490	11,019	3,482	0,609
	8,000	3,367	77,152	80,741	82,759	33,485	10,984	3,262	0,609
	7,500	3,867	73,724	77,153	79,082	33,479	10,945	3,046	0,609
	7,000	4,367	70,297	73,566	75,405	33,474	10,903	2,833	0,607
	6,500	4,867	66,873	69,983	71,733	33,467	10,857	2,623	0,605
	6,000	5,367	63,452	66,403	68,063	33,460	10,806	2,419	0,604
	5,500	5,867	60,033	62,825	64,396	33,452	10,749	2,220	0,603
	5,000	6,367	56,618	59,251	60,733	33,443	10,685	2,027	0,601
	4,500	6,867	53,208	55,683	57,075	33,432	10,614	1,841	0,597
	4,000	7,367	49,806	52,123	53,426	33,421	10,532	1,665	0,592
	3,500	7,867	46,417	48,576	49,790	33,407	10,440	1,501	0,584
	3,000	8,367	43,047	45,049	46,175	33,390	10,333	1,350	0,572
	2,500	8,867	39,708	41,554	42,593	33,371	10,210	1,218	0,553
	2,000	9,367	36,421	38,115	39,068	33,347	10,068	1,110	0,519
	1,500	9,867	33,241	34,787	35,657	33,316	9,905	1,033	0,451
	1,000	10,367	19,916	20,843	21,364	33,795	9,769	0,812	50,203
	0,500	10,867	5,660	5,923	6,071	34,903	9,521	0,486	25,260
	0,207	11,160	1,000	1,047	1,073	35,787	9,105	0,289	7,350
	0,000	11,367	0,000	0,000	0,000	37,173	5,335	0,133	0,000

Tank Calibrations - 2AL2B

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL2B	11,435	0,000	100,000	109,360	112,094	40,811	-11,162	4,554	0,000
	11,093	0,342	98,000	107,173	109,852	40,809	-11,149	4,416	0,605
	11,078	0,357	97,900	107,063	109,740	40,809	-11,148	4,409	0,605
	11,000	0,435	97,389	106,505	109,167	40,809	-11,145	4,373	0,605
	10,500	0,935	94,116	102,925	105,498	40,809	-11,121	4,148	0,605
	10,000	1,435	90,842	99,344	101,828	40,809	-11,097	3,924	0,605
	9,500	1,935	87,567	95,764	98,158	40,810	-11,070	3,703	0,605
	9,000	2,435	84,292	92,182	94,487	40,810	-11,042	3,483	0,606
	8,500	2,935	81,017	88,600	90,815	40,811	-11,011	3,266	0,606
	8,000	3,435	77,741	85,017	87,143	40,811	-10,977	3,052	0,607
	7,500	3,935	74,463	81,433	83,469	40,812	-10,941	2,841	0,607
	7,000	4,435	71,185	77,848	79,794	40,812	-10,901	2,633	0,608
	6,500	4,935	67,905	74,261	76,117	40,813	-10,857	2,429	0,609
	6,000	5,435	64,624	70,673	72,439	40,813	-10,809	2,230	0,609
	5,500	5,935	61,343	67,084	68,761	40,814	-10,755	2,037	0,609
	5,000	6,435	58,061	63,496	65,083	40,815	-10,696	1,849	0,609
	4,500	6,935	54,780	59,908	61,405	40,815	-10,629	1,670	0,609
	4,000	7,435	51,500	56,321	57,729	40,816	-10,554	1,499	0,608
	3,500	7,935	48,224	52,737	54,056	40,817	-10,469	1,339	0,605
	3,000	8,435	44,953	49,161	50,390	40,818	-10,372	1,193	0,601
	2,500	8,935	41,694	45,597	46,737	40,819	-10,260	1,063	0,592
	2,000	9,435	38,458	42,058	43,109	40,820	-10,130	0,954	0,574
	1,500	9,935	35,272	38,573	39,538	40,821	-9,980	0,873	0,536
	1,000	10,435	23,531	25,733	26,376	40,791	-9,868	0,653	45,337
	0,500	10,935	10,088	11,032	11,308	40,780	-9,636	0,386	36,478

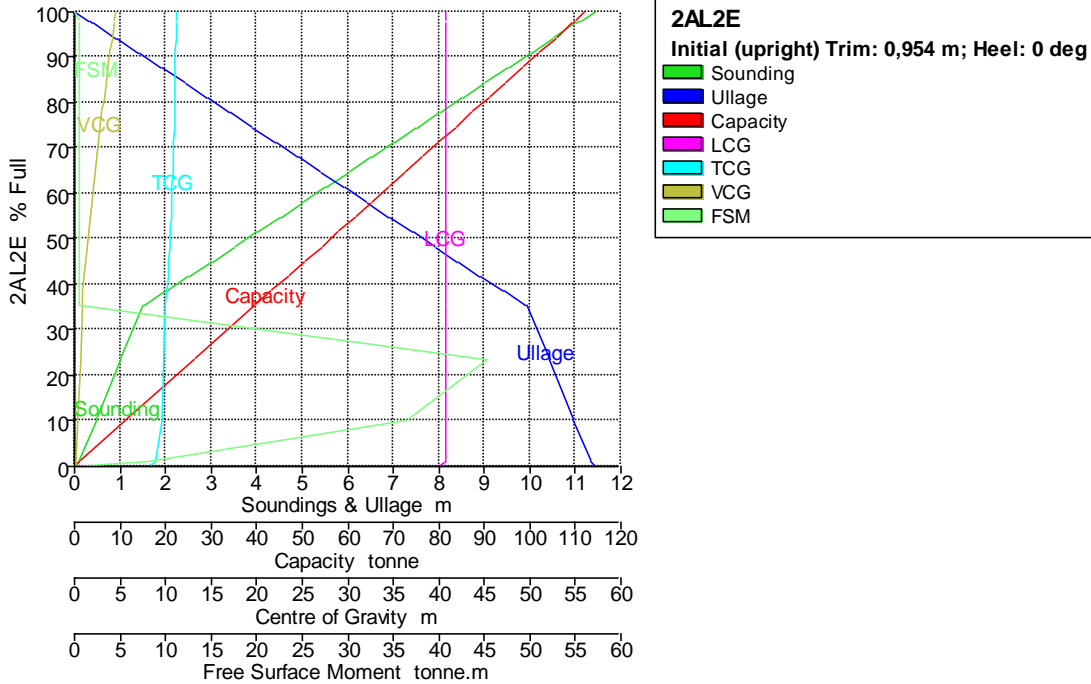
Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,092	11,343	1,000	1,094	1,121	40,691	-8,876	0,155	7,871
	0,000	11,435	0,022	0,024	0,025	40,049	-8,209	0,104	0,122

Tank Calibrations - 2AL2E

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL2E	11,435	0,000	100,000	109,360	112,094	40,811	11,162	4,554	0,000
	11,093	0,342	98,000	107,173	109,852	40,809	11,149	4,416	0,605
	11,078	0,357	97,900	107,063	109,740	40,809	11,148	4,409	0,605
	11,000	0,435	97,389	106,505	109,167	40,809	11,145	4,373	0,605
	10,500	0,935	94,116	102,925	105,498	40,809	11,121	4,148	0,605
	10,000	1,435	90,842	99,344	101,828	40,809	11,097	3,924	0,605
	9,500	1,935	87,567	95,764	98,158	40,810	11,070	3,703	0,605
	9,000	2,435	84,292	92,182	94,487	40,810	11,042	3,483	0,606
	8,500	2,935	81,017	88,600	90,815	40,811	11,011	3,266	0,606
	8,000	3,435	77,741	85,017	87,143	40,811	10,977	3,052	0,607
	7,500	3,935	74,463	81,433	83,469	40,812	10,941	2,841	0,607
	7,000	4,435	71,185	77,848	79,794	40,812	10,901	2,633	0,608
	6,500	4,935	67,905	74,261	76,117	40,813	10,857	2,429	0,609
	6,000	5,435	64,624	70,673	72,439	40,813	10,809	2,230	0,609
	5,500	5,935	61,343	67,084	68,761	40,814	10,755	2,037	0,609
	5,000	6,435	58,061	63,496	65,083	40,815	10,696	1,849	0,609
	4,500	6,935	54,780	59,908	61,405	40,815	10,629	1,670	0,609
	4,000	7,435	51,500	56,321	57,729	40,816	10,554	1,499	0,608
	3,500	7,935	48,224	52,737	54,056	40,817	10,469	1,339	0,605
	3,000	8,435	44,953	49,161	50,390	40,818	10,372	1,193	0,601

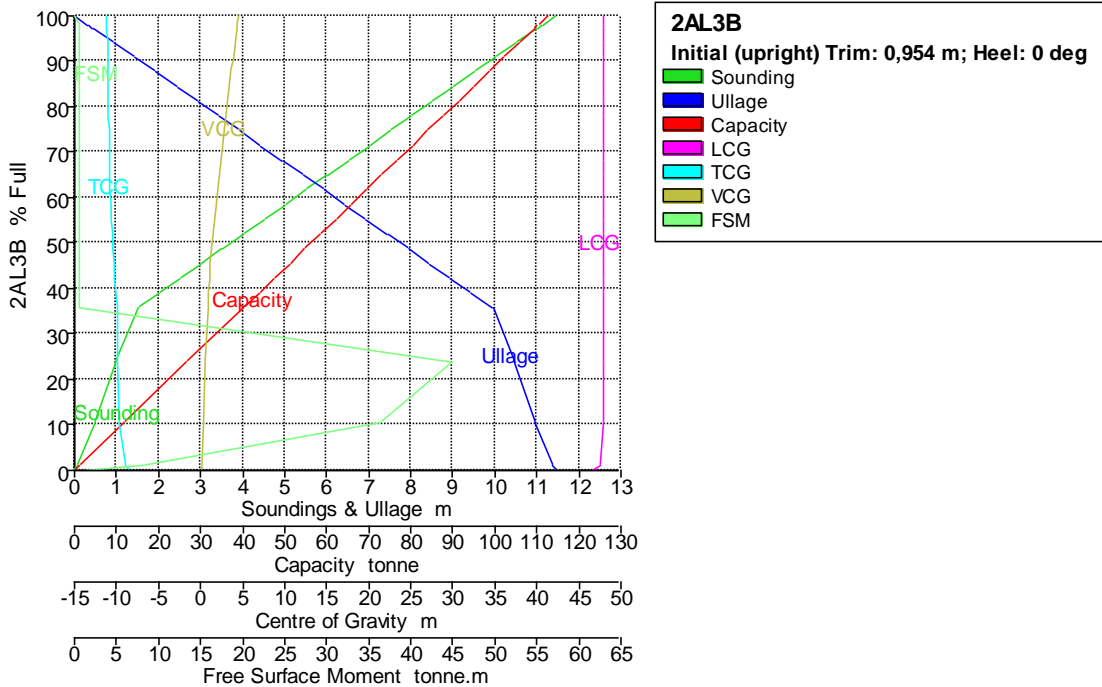
Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	2,500	8,935	41,694	45,597	46,737	40,819	10,260	1,063	0,592
	2,000	9,435	38,458	42,058	43,109	40,820	10,130	0,954	0,574
	1,500	9,935	35,272	38,573	39,538	40,821	9,980	0,873	0,536
	1,000	10,435	23,531	25,733	26,376	40,791	9,868	0,653	45,337
	0,500	10,935	10,088	11,032	11,308	40,780	9,636	0,386	36,478
	0,092	11,343	1,000	1,094	1,121	40,691	8,876	0,155	7,871
	0,000	11,435	0,022	0,024	0,025	40,049	8,209	0,104	0,122

Tank Calibrations - 2AL3B

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL3B	11,451	0,000	100,000	109,720	112,463	47,990	-11,146	4,512	0,000
	11,451	0,000	100,000	109,719	112,462	47,990	-11,146	4,512	0,021
	11,108	0,343	98,000	107,525	110,213	47,987	-11,133	4,373	0,592
	11,093	0,359	97,900	107,415	110,101	47,987	-11,132	4,366	0,592
	11,000	0,451	97,299	106,756	109,424	47,987	-11,128	4,324	0,592
	10,500	0,951	94,058	103,200	105,780	47,987	-11,105	4,100	0,593
	10,000	1,451	90,817	99,644	102,136	47,987	-11,080	3,877	0,593
	9,500	1,951	87,576	96,088	98,491	47,987	-11,053	3,657	0,593
	9,000	2,451	84,335	92,532	94,845	47,986	-11,024	3,439	0,593
	8,500	2,951	81,092	88,974	91,199	47,986	-10,993	3,223	0,594
	8,000	3,451	77,849	85,416	87,551	47,986	-10,959	3,010	0,594
	7,500	3,951	74,605	81,856	83,903	47,986	-10,922	2,800	0,595
	7,000	4,451	71,359	78,295	80,253	47,986	-10,882	2,594	0,596
	6,500	4,951	68,111	74,731	76,599	47,986	-10,838	2,392	0,598
	6,000	5,451	64,861	71,165	72,945	47,986	-10,790	2,194	0,598

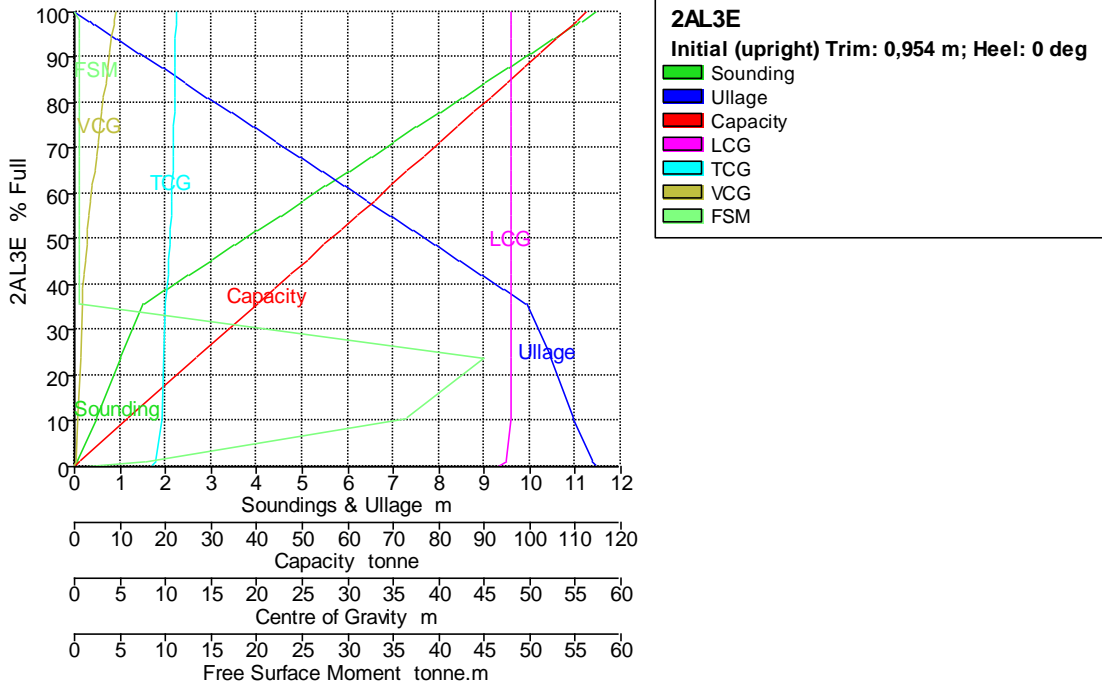
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	5,500	5,951	61,612	67,600	69,290	47,986	-10,736	2,003	0,598
	5,000	6,451	58,362	64,034	65,635	47,986	-10,677	1,817	0,598
	4,500	6,951	55,113	60,469	61,981	47,986	-10,611	1,639	0,597
	4,000	7,451	51,864	56,905	58,328	47,987	-10,536	1,471	0,597
	3,500	7,951	48,619	53,344	54,678	47,987	-10,451	1,313	0,594
	3,000	8,451	45,379	49,790	51,035	47,987	-10,355	1,169	0,590
	2,500	8,951	42,152	46,249	47,405	47,988	-10,244	1,041	0,581
	2,000	9,451	38,948	42,734	43,802	47,989	-10,116	0,935	0,563
	1,500	9,951	35,798	39,278	40,259	47,990	-9,969	0,856	0,521
	1,000	10,451	23,738	26,045	26,696	47,950	-9,861	0,629	44,947
	0,500	10,951	10,373	11,381	11,666	47,904	-9,634	0,362	36,353
	0,076	11,375	1,000	1,097	1,125	47,472	-8,873	0,124	7,685
	0,000	11,451	0,132	0,145	0,149	46,371	-8,472	0,085	1,148

Tank Calibrations - 2AL3E

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = 0,954 m (+ve by stern); Heel = 0 deg

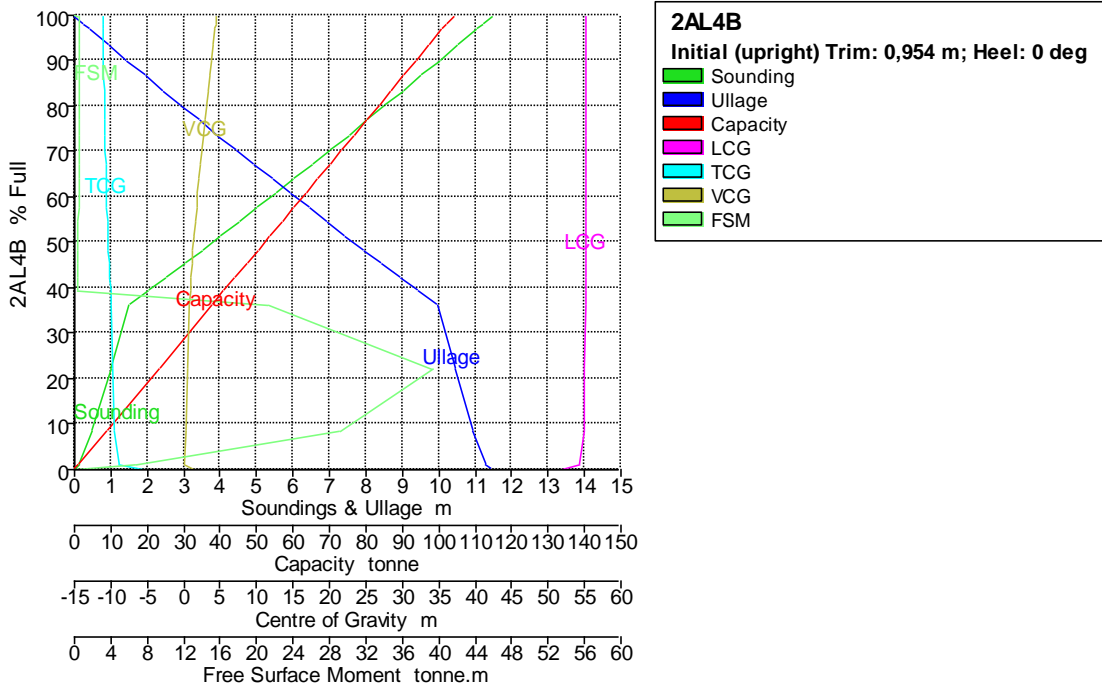


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL3E	11,451	0,000	100,000	109,720	112,463	47,990	11,146	4,512	0,000
	11,451	0,000	100,000	109,719	112,462	47,990	11,146	4,512	0,021
	11,108	0,343	98,000	107,525	110,213	47,987	11,133	4,373	0,592
	11,093	0,359	97,900	107,415	110,101	47,987	11,132	4,366	0,592
	11,000	0,451	97,299	106,756	109,424	47,987	11,128	4,324	0,592
	10,500	0,951	94,058	103,200	105,780	47,987	11,105	4,100	0,593
	10,000	1,451	90,817	99,644	102,136	47,987	11,080	3,877	0,593
	9,500	1,951	87,576	96,088	98,491	47,987	11,053	3,657	0,593
	9,000	2,451	84,335	92,532	94,845	47,986	11,024	3,439	0,593

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	8,500	2,951	81,092	88,974	91,199	47,986	10,993	3,223	0,594
	8,000	3,451	77,849	85,416	87,551	47,986	10,959	3,010	0,594
	7,500	3,951	74,605	81,856	83,903	47,986	10,922	2,800	0,595
	7,000	4,451	71,359	78,295	80,253	47,986	10,882	2,594	0,596
	6,500	4,951	68,111	74,731	76,599	47,986	10,838	2,392	0,598
	6,000	5,451	64,861	71,165	72,945	47,986	10,790	2,194	0,598
	5,500	5,951	61,612	67,600	69,290	47,986	10,736	2,003	0,598
	5,000	6,451	58,362	64,034	65,635	47,986	10,677	1,817	0,598
	4,500	6,951	55,113	60,469	61,981	47,986	10,611	1,639	0,597
	4,000	7,451	51,864	56,905	58,328	47,987	10,536	1,471	0,597
	3,500	7,951	48,619	53,344	54,678	47,987	10,451	1,313	0,594
	3,000	8,451	45,379	49,790	51,035	47,987	10,355	1,169	0,590
	2,500	8,951	42,152	46,249	47,405	47,988	10,244	1,041	0,581
	2,000	9,451	38,948	42,734	43,802	47,989	10,116	0,935	0,563
	1,500	9,951	35,798	39,278	40,259	47,990	9,969	0,856	0,521
	1,000	10,451	23,738	26,045	26,696	47,950	9,861	0,629	44,947
	0,500	10,951	10,373	11,381	11,666	47,904	9,634	0,362	36,353
	0,076	11,375	1,000	1,097	1,125	47,472	8,873	0,124	7,685
	0,000	11,451	0,132	0,145	0,149	46,371	8,472	0,085	1,148

Tank Calibrations - 2AL4B

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg

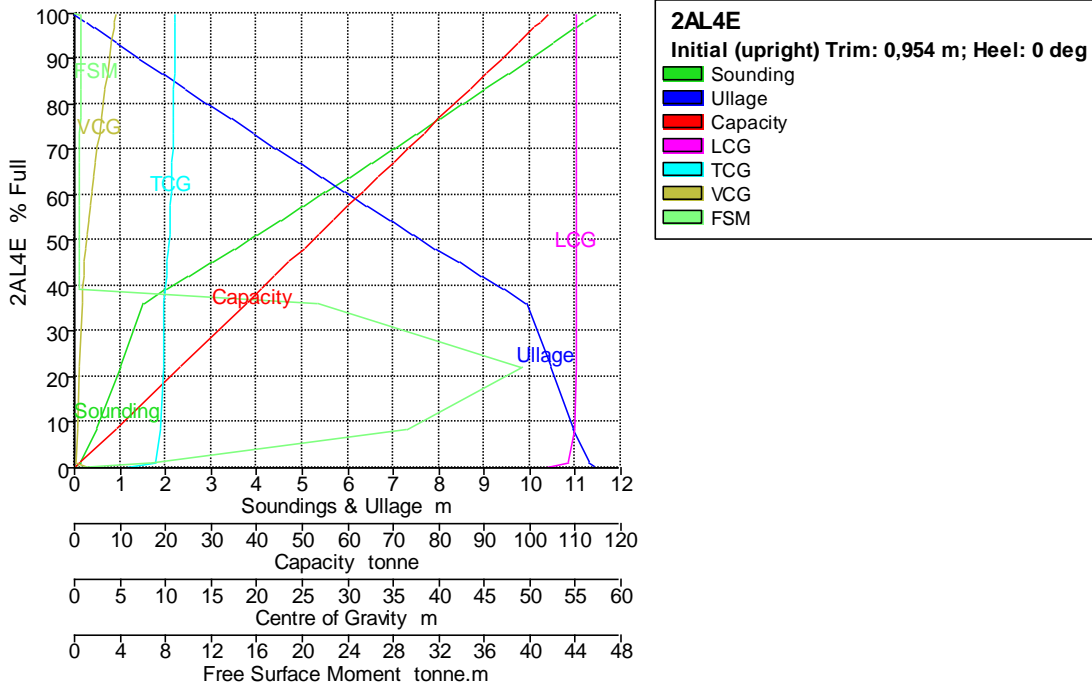


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL4B	11,451	0,000	100,000	101,645	104,187	55,101	-11,074	4,536	0,000
	11,451	0,000	99,762	101,403	103,938	55,098	-11,072	4,520	0,538
	11,191	0,260	98,000	99,612	102,103	55,097	-11,060	4,397	0,537

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	11,176	0,275	97,900	99,511	101,999	55,097	-11,059	4,390	0,537
	11,000	0,451	96,707	98,298	100,755	55,096	-11,050	4,308	0,535
	10,500	0,951	93,334	94,869	97,241	55,094	-11,023	4,074	0,530
	10,000	1,451	89,973	91,454	93,740	55,091	-10,995	3,843	0,524
	9,500	1,951	86,627	88,052	90,254	55,089	-10,965	3,614	0,518
	9,000	2,451	83,296	84,667	86,784	55,087	-10,932	3,388	0,511
	8,500	2,951	79,984	81,300	83,332	55,085	-10,897	3,166	0,503
	8,000	3,451	76,692	77,954	79,902	55,084	-10,859	2,947	0,493
	7,500	3,951	73,425	74,633	76,499	55,082	-10,819	2,733	0,482
	7,000	4,451	70,190	71,345	73,129	55,082	-10,775	2,524	0,468
	6,500	4,951	66,999	68,102	69,804	55,082	-10,728	2,322	0,454
	6,000	5,451	63,829	64,880	66,502	55,083	-10,677	2,126	0,449
	5,500	5,951	60,674	61,672	63,214	55,084	-10,621	1,937	0,444
	5,000	6,451	57,532	58,479	59,941	55,085	-10,559	1,755	0,439
	4,500	6,951	54,406	55,301	56,684	55,087	-10,490	1,582	0,434
	4,000	7,451	51,296	52,141	53,444	55,090	-10,414	1,419	0,428
	3,500	7,951	48,206	48,999	50,224	55,094	-10,328	1,269	0,420
	3,000	8,451	45,141	45,883	47,031	55,098	-10,232	1,134	0,410
	2,500	8,951	42,109	42,802	43,872	55,104	-10,123	1,016	0,396
	2,000	9,451	39,133	39,777	40,771	55,112	-10,001	0,921	0,372
	1,500	9,951	36,173	36,768	37,687	55,115	-9,865	0,852	21,357
	1,000	10,451	22,210	22,575	23,140	55,059	-9,756	0,598	39,287
	0,500	10,951	8,583	8,724	8,942	54,939	-9,485	0,327	29,042
	0,150	11,301	1,000	1,016	1,042	54,213	-8,836	0,128	6,599
	0,000	11,451	0,000	0,000	0,000	51,616	-5,338	1,685	0,000

Tank Calibrations - 2AL4E

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



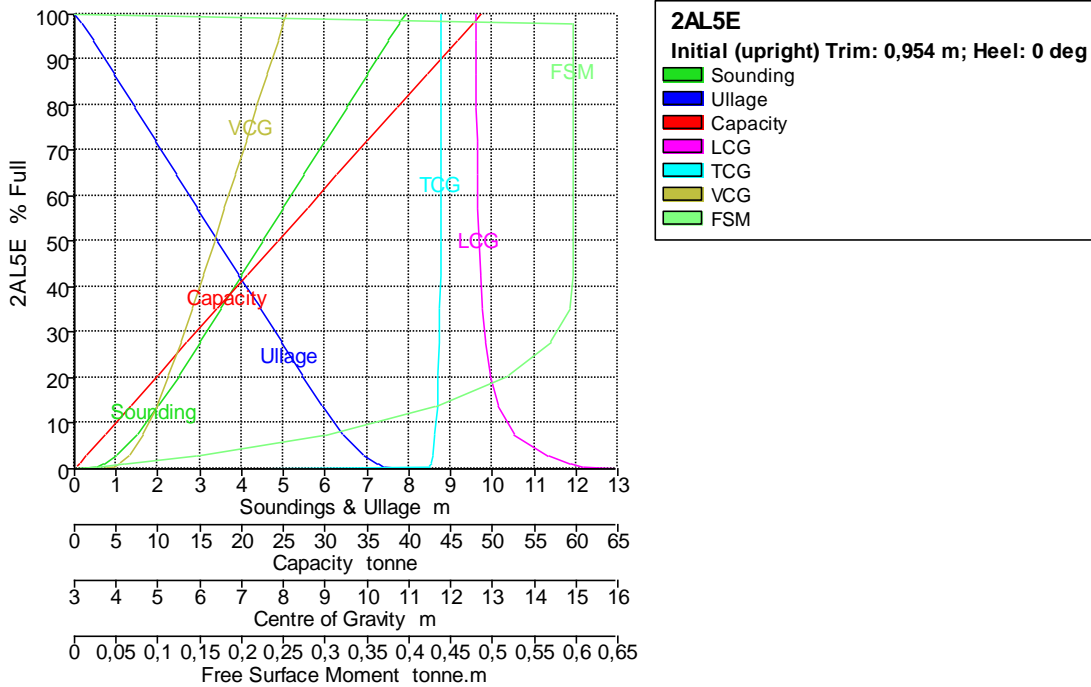
Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL4E	11,451	0,000	100,000	101,645	104,187	55,101	11,074	4,536	0,000
	11,451	0,000	99,762	101,403	103,938	55,098	11,072	4,520	0,538
	11,191	0,260	98,000	99,612	102,103	55,097	11,060	4,397	0,537
	11,176	0,275	97,900	99,511	101,999	55,097	11,059	4,390	0,537
	11,000	0,451	96,707	98,298	100,755	55,096	11,050	4,308	0,535
	10,500	0,951	93,334	94,869	97,241	55,094	11,023	4,074	0,530
	10,000	1,451	89,973	91,454	93,740	55,091	10,995	3,843	0,524
	9,500	1,951	86,627	88,052	90,254	55,089	10,965	3,614	0,518
	9,000	2,451	83,296	84,667	86,784	55,087	10,932	3,388	0,511
	8,500	2,951	79,984	81,300	83,332	55,085	10,897	3,166	0,503
	8,000	3,451	76,692	77,954	79,902	55,084	10,859	2,947	0,493
	7,500	3,951	73,425	74,633	76,499	55,082	10,819	2,733	0,482
	7,000	4,451	70,190	71,345	73,129	55,082	10,775	2,524	0,468
	6,500	4,951	66,999	68,102	69,804	55,082	10,728	2,322	0,454
	6,000	5,451	63,829	64,880	66,502	55,083	10,677	2,126	0,449
	5,500	5,951	60,674	61,672	63,214	55,084	10,621	1,937	0,444
	5,000	6,451	57,532	58,479	59,941	55,085	10,559	1,755	0,439
	4,500	6,951	54,406	55,301	56,684	55,087	10,490	1,582	0,434
	4,000	7,451	51,296	52,141	53,444	55,090	10,414	1,419	0,428
	3,500	7,951	48,206	48,999	50,224	55,094	10,328	1,269	0,420
	3,000	8,451	45,141	45,883	47,031	55,098	10,232	1,134	0,410
	2,500	8,951	42,109	42,802	43,872	55,104	10,123	1,016	0,396
	2,000	9,451	39,133	39,777	40,771	55,112	10,001	0,921	0,372
	1,500	9,951	36,173	36,768	37,687	55,115	9,865	0,852	21,357
	1,000	10,451	22,210	22,575	23,140	55,059	9,756	0,598	39,287
	0,500	10,951	8,583	8,724	8,942	54,939	9,485	0,327	29,042
	0,150	11,301	1,000	1,016	1,042	54,213	8,836	0,128	6,599
	0,000	11,451	0,000	0,000	0,000	51,616	5,338	1,685	0,000

Tank Calibrations - 2AL5E

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

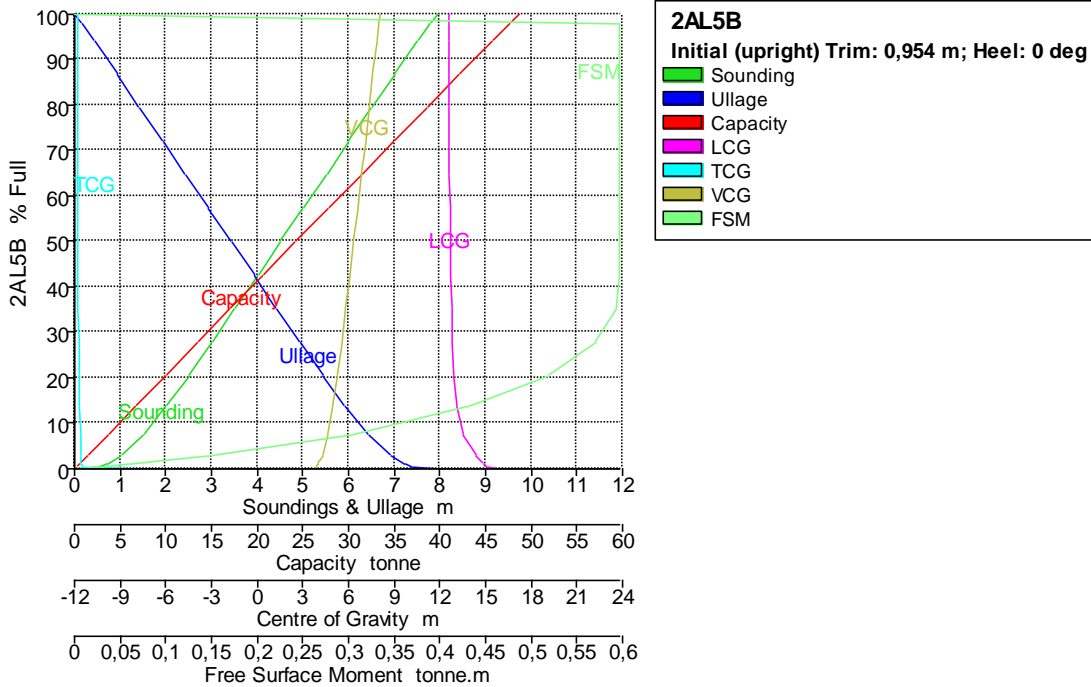
Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL5E	7,945	0,000	100,000	47,427	48,613	12,599	11,787	8,078	0,000
	7,775	0,171	98,000	46,479	47,641	12,595	11,787	8,009	0,597
	7,768	0,177	97,900	46,431	47,592	12,595	11,787	8,006	0,597
	7,500	0,445	93,947	44,556	45,670	12,599	11,786	7,870	0,597
	7,000	0,945	86,570	41,058	42,084	12,607	11,784	7,617	0,597
	6,500	1,445	79,194	37,559	38,498	12,617	11,781	7,364	0,597
	6,000	1,945	71,817	34,061	34,912	12,629	11,779	7,110	0,597
	5,500	2,445	64,440	30,562	31,326	12,644	11,775	6,854	0,597
	5,000	2,945	57,064	27,064	27,740	12,663	11,771	6,598	0,597
	4,500	3,445	49,688	23,566	24,155	12,687	11,765	6,339	0,597
	4,000	3,945	42,313	20,068	20,570	12,720	11,758	6,077	0,597
	3,500	4,445	34,942	16,572	16,987	12,766	11,747	5,811	0,593
	3,000	4,945	27,622	13,100	13,428	12,835	11,732	5,538	0,570
	2,500	5,445	20,460	9,703	9,946	12,945	11,710	5,258	0,519
	2,000	5,945	13,628	6,463	6,625	13,138	11,678	4,965	0,430
	1,500	6,445	7,446	3,531	3,619	13,533	11,633	4,649	0,300
	1,000	6,945	2,723	1,291	1,324	14,344	11,579	4,296	0,144
	0,681	7,264	1,000	0,474	0,486	14,903	11,531	4,063	0,059
	0,500	7,445	0,437	0,207	0,212	15,208	11,494	3,929	0,027
	0,000	7,945	0,000	0,000	0,000	15,982	7,540	3,555	0,000

Tank Calibrations - 2AL5B

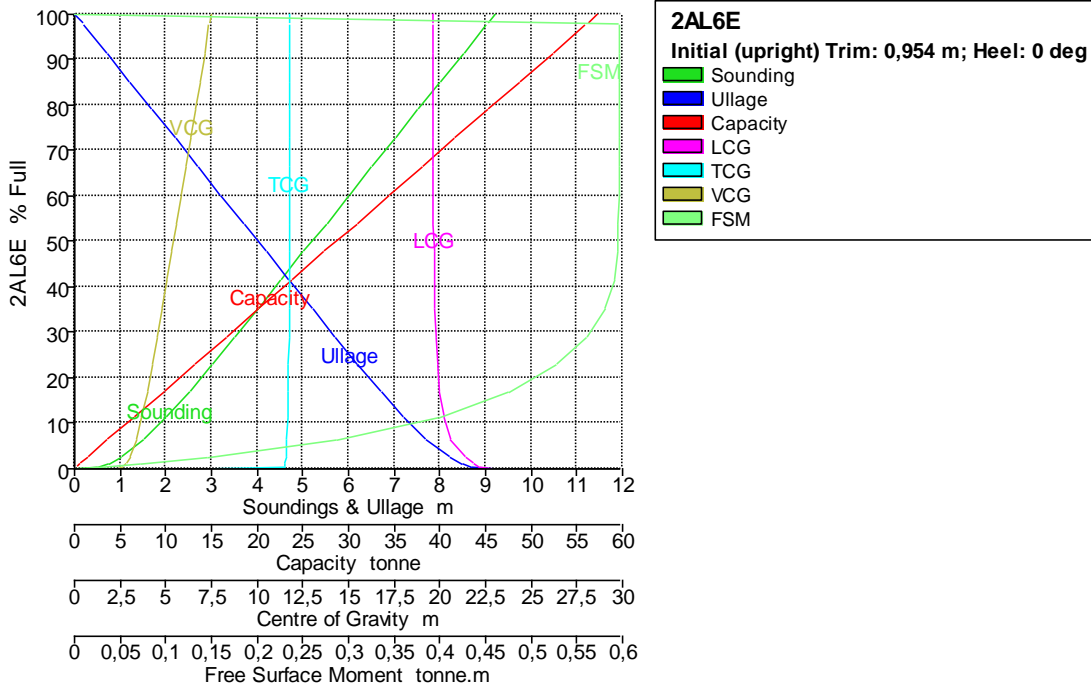
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL5B	7,945	0,000	100,000	47,427	48,613	12,599	-11,787	8,078	0,000
	7,775	0,171	98,000	46,479	47,641	12,595	-11,787	8,009	0,597
	7,768	0,177	97,900	46,431	47,592	12,595	-11,787	8,006	0,597
	7,500	0,445	93,947	44,556	45,670	12,599	-11,786	7,870	0,597
	7,000	0,945	86,570	41,058	42,084	12,607	-11,784	7,617	0,597
	6,500	1,445	79,194	37,559	38,498	12,617	-11,781	7,364	0,597
	6,000	1,945	71,817	34,061	34,912	12,629	-11,779	7,110	0,597
	5,500	2,445	64,440	30,562	31,326	12,644	-11,775	6,854	0,597
	5,000	2,945	57,064	27,064	27,740	12,663	-11,771	6,598	0,597
	4,500	3,445	49,688	23,566	24,155	12,687	-11,765	6,339	0,597
	4,000	3,945	42,313	20,068	20,570	12,720	-11,758	6,077	0,597
	3,500	4,445	34,942	16,572	16,987	12,766	-11,747	5,811	0,593
	3,000	4,945	27,622	13,100	13,428	12,835	-11,732	5,538	0,570
	2,500	5,445	20,460	9,703	9,946	12,945	-11,710	5,258	0,519
	2,000	5,945	13,628	6,463	6,625	13,138	-11,678	4,965	0,430
	1,500	6,445	7,446	3,531	3,619	13,533	-11,633	4,649	0,300
	1,000	6,945	2,723	1,291	1,324	14,344	-11,579	4,296	0,144
	0,681	7,264	1,000	0,474	0,486	14,903	-11,531	4,063	0,059
	0,500	7,445	0,437	0,207	0,212	15,208	-11,494	3,929	0,027
	0,000	7,945	0,000	0,000	0,000	15,982	-7,540	3,555	0,000

Tank Calibrations - 2AL6E

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



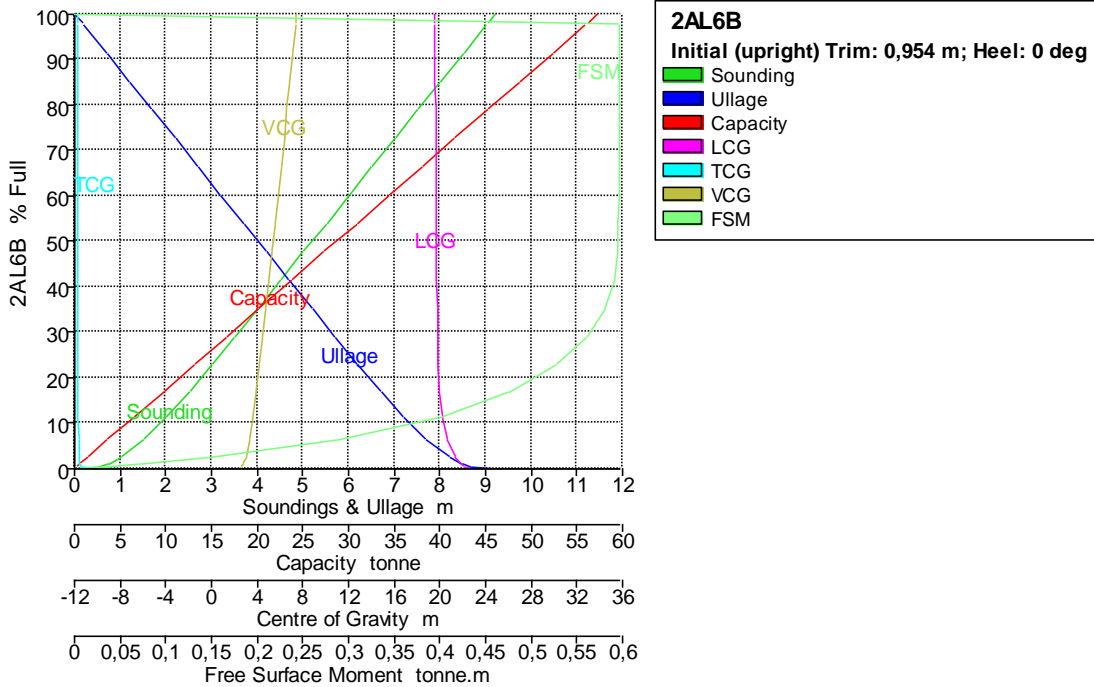
Tank Name	Sounding g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL6E	9,227	0,000	100,000	55,877	57,274	19,593	11,787	7,464	0,000
	9,032	0,195	98,000	54,759	56,128	19,589	11,787	7,384	0,596
	9,024	0,203	97,900	54,704	56,071	19,589	11,787	7,380	0,596
	9,000	0,227	97,601	54,536	55,900	19,590	11,787	7,368	0,596
	8,500	0,727	91,344	51,040	52,316	19,596	11,785	7,115	0,596
	8,000	1,227	85,087	47,544	48,733	19,603	11,784	6,861	0,596
	7,500	1,727	78,830	44,048	45,149	19,611	11,782	6,608	0,596
	7,000	2,227	72,572	40,551	41,565	19,621	11,779	6,353	0,596
	6,500	2,727	66,314	37,055	37,981	19,632	11,777	6,098	0,596
	6,000	3,227	60,058	33,558	34,397	19,646	11,773	5,842	0,596
	5,500	3,727	53,802	30,063	30,814	19,663	11,769	5,584	0,595
	5,000	4,227	47,549	26,569	27,233	19,684	11,764	5,324	0,594
	4,500	4,727	41,302	23,078	23,655	19,712	11,757	5,062	0,591
	4,000	5,227	35,079	19,601	20,091	19,750	11,749	4,797	0,580
	3,500	5,727	28,910	16,154	16,558	19,801	11,738	4,527	0,560
	3,000	6,227	22,839	12,762	13,081	19,876	11,723	4,253	0,527
	2,500	6,727	16,932	9,461	9,698	19,994	11,702	3,972	0,475
	2,000	7,227	11,303	6,316	6,473	20,199	11,674	3,679	0,398
	1,500	7,727	6,189	3,458	3,545	20,619	11,634	3,363	0,287
	1,000	8,227	2,301	1,286	1,318	21,413	11,586	3,009	0,144
	0,721	8,506	1,000	0,559	0,573	21,875	11,546	2,807	0,071
	0,500	8,727	0,384	0,215	0,220	22,231	11,502	2,646	0,029
	0,000	9,227	0,000	0,000	0,000	22,932	7,540	2,273	0,000

Tank Calibrations - 2AL6B

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

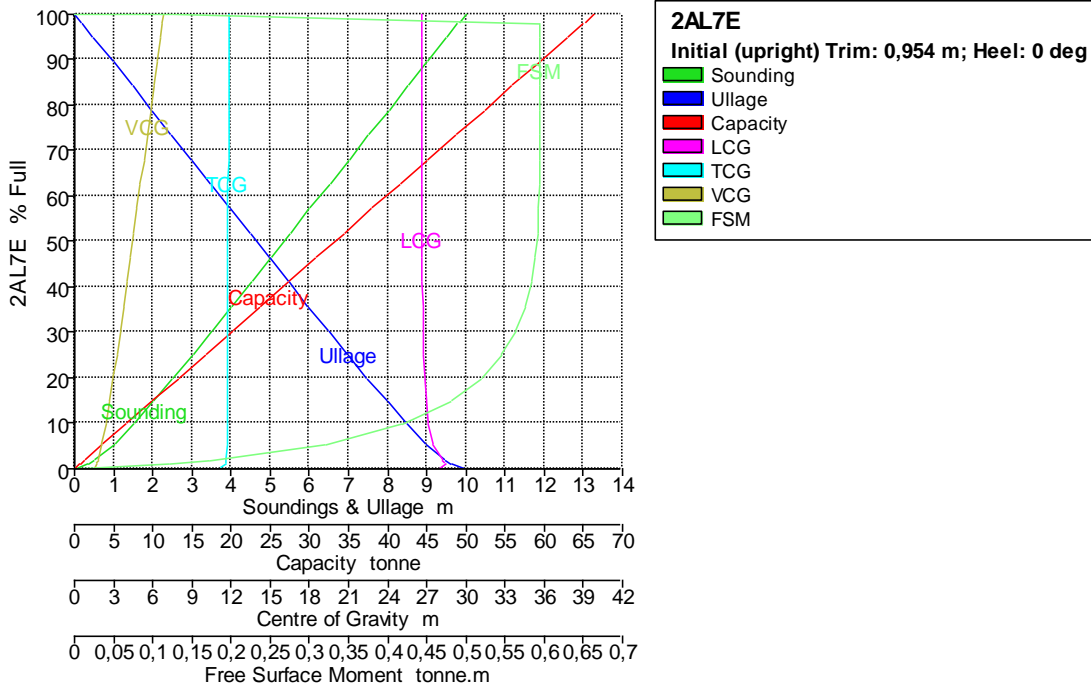
Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL6B	9,227	0,000	100,000	55,877	57,274	19,593	-11,787	7,464	0,000
	9,032	0,195	98,000	54,759	56,128	19,589	-11,787	7,384	0,596
	9,024	0,203	97,900	54,704	56,071	19,589	-11,787	7,380	0,596
	9,000	0,227	97,601	54,536	55,900	19,590	-11,787	7,368	0,596
	8,500	0,727	91,344	51,040	52,316	19,596	-11,785	7,115	0,596
	8,000	1,227	85,087	47,544	48,733	19,603	-11,784	6,861	0,596
	7,500	1,727	78,830	44,048	45,149	19,611	-11,782	6,608	0,596
	7,000	2,227	72,572	40,551	41,565	19,621	-11,779	6,353	0,596
	6,500	2,727	66,314	37,055	37,981	19,632	-11,777	6,098	0,596
	6,000	3,227	60,058	33,558	34,397	19,646	-11,773	5,842	0,596
	5,500	3,727	53,802	30,063	30,814	19,663	-11,769	5,584	0,595
	5,000	4,227	47,549	26,569	27,233	19,684	-11,764	5,324	0,594
	4,500	4,727	41,302	23,078	23,655	19,712	-11,757	5,062	0,591
	4,000	5,227	35,079	19,601	20,091	19,750	-11,749	4,797	0,580
	3,500	5,727	28,910	16,154	16,558	19,801	-11,738	4,527	0,560
	3,000	6,227	22,839	12,762	13,081	19,876	-11,723	4,253	0,527
	2,500	6,727	16,932	9,461	9,698	19,994	-11,702	3,972	0,475
	2,000	7,227	11,303	6,316	6,473	20,199	-11,674	3,679	0,398
	1,500	7,727	6,189	3,458	3,545	20,619	-11,634	3,363	0,287
	1,000	8,227	2,301	1,286	1,318	21,413	-11,586	3,009	0,144
	0,721	8,506	1,000	0,559	0,573	21,875	-11,546	2,807	0,071
	0,500	8,727	0,384	0,215	0,220	22,231	-11,502	2,646	0,029
	0,000	9,227	0,000	0,000	0,000	22,932	-7,540	2,273	0,000

Tank Calibrations - 2AL7E

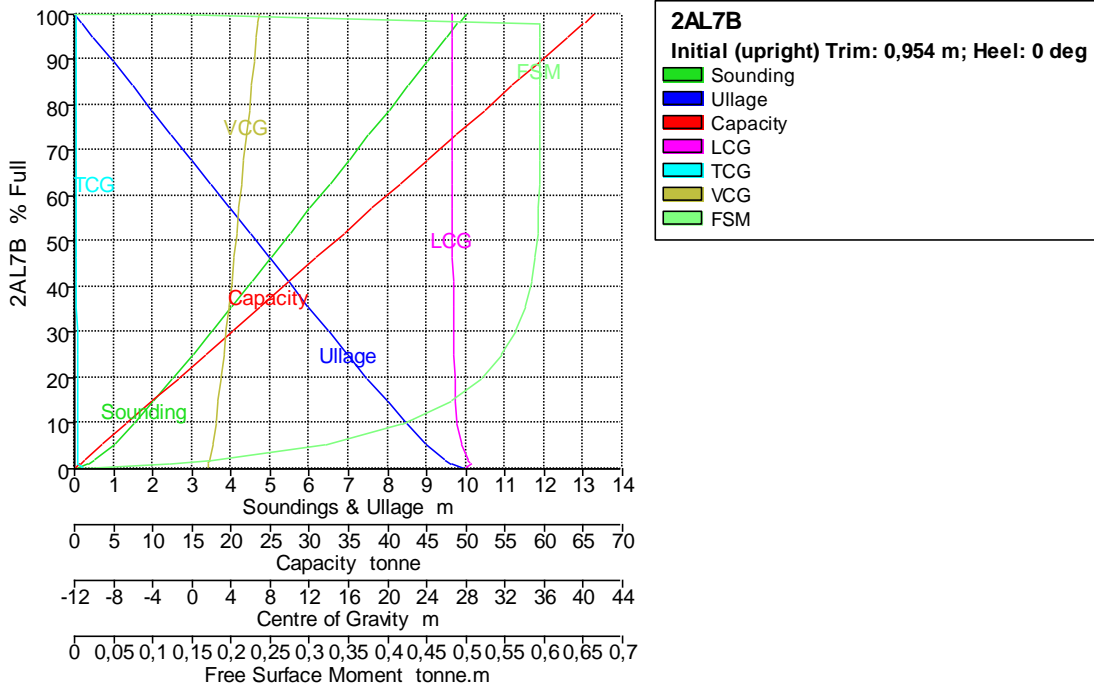
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL7E	10,000	0,000	100,000	64,785	66,405	26,574	11,791	6,826	0,000
	10,000	0,000	99,985	64,776	66,395	26,574	11,791	6,825	0,127
	9,793	0,207	98,000	63,490	65,077	26,571	11,791	6,733	0,594
	9,784	0,216	97,900	63,425	65,010	26,571	11,790	6,728	0,594
	9,500	0,500	94,836	61,440	62,976	26,573	11,790	6,585	0,594
	9,000	1,000	89,444	57,947	59,395	26,578	11,789	6,332	0,595
	8,500	1,500	84,052	54,453	55,814	26,583	11,788	6,080	0,595
	8,000	2,000	78,659	50,959	52,233	26,589	11,786	5,827	0,595
	7,500	2,500	73,266	47,465	48,652	26,595	11,785	5,573	0,595
	7,000	3,000	67,873	43,972	45,071	26,603	11,783	5,319	0,594
	6,500	3,500	62,482	40,479	41,491	26,612	11,781	5,064	0,594
	6,000	4,000	57,093	36,988	37,912	26,622	11,778	4,809	0,593
	5,500	4,500	51,707	33,499	34,336	26,635	11,775	4,552	0,591
	5,000	5,000	46,330	30,015	30,765	26,651	11,771	4,295	0,588
	4,500	5,500	40,962	26,537	27,201	26,671	11,767	4,036	0,584
	4,000	6,000	35,613	23,072	23,649	26,696	11,761	3,775	0,576
	3,500	6,500	30,295	19,627	20,117	26,729	11,754	3,512	0,564
	3,000	7,000	25,024	16,212	16,617	26,774	11,745	3,247	0,546
	2,500	7,500	19,824	12,843	13,164	26,839	11,733	2,978	0,519
	2,000	8,000	14,736	9,547	9,786	26,941	11,717	2,705	0,480
	1,500	8,500	9,835	6,372	6,531	27,120	11,694	2,422	0,418
	1,000	9,000	5,305	3,437	3,523	27,494	11,660	2,120	0,319
	0,500	9,500	1,775	1,150	1,178	28,219	11,621	1,796	0,170
	0,337	9,663	1,000	0,648	0,664	28,460	11,605	1,692	0,119
	0,000	10,000	0,003	0,002	0,002	27,870	11,064	1,619	0,004

Tank Calibrations - 2AL7B

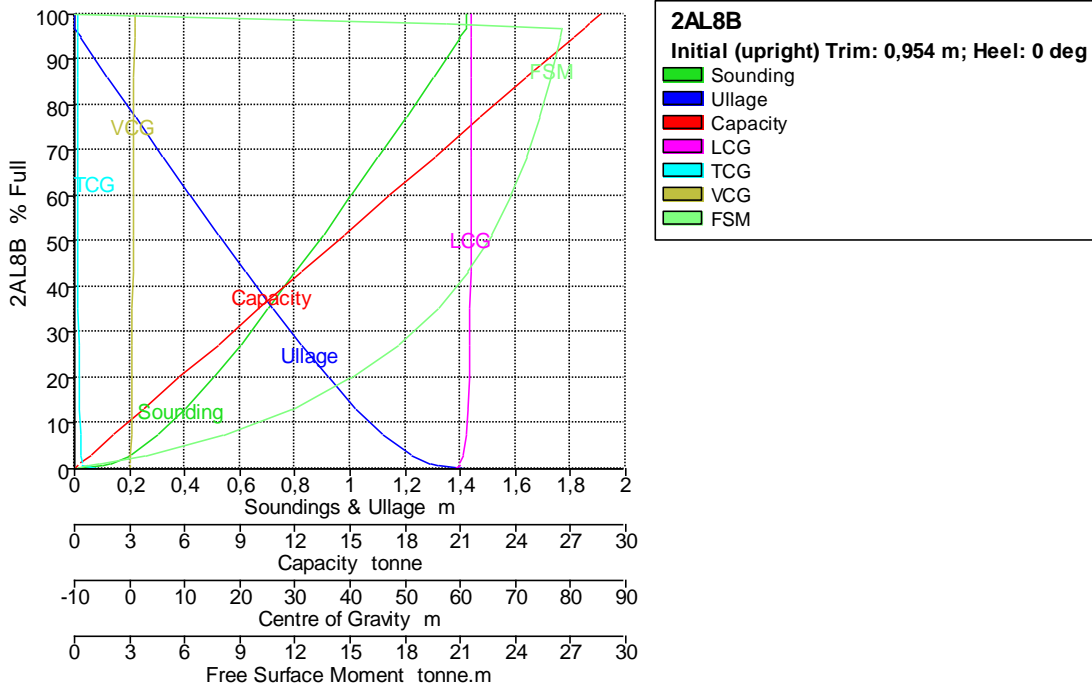
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL7B	10,000	0,000	100,000	64,785	66,405	26,574	-11,791	6,826	0,000
	10,000	0,000	99,985	64,776	66,395	26,574	-11,791	6,825	0,127
	9,793	0,207	98,000	63,490	65,077	26,571	-11,791	6,733	0,594
	9,784	0,216	97,900	63,425	65,010	26,571	-11,790	6,728	0,594
	9,500	0,500	94,836	61,440	62,976	26,573	-11,790	6,585	0,594
	9,000	1,000	89,444	57,947	59,395	26,578	-11,789	6,332	0,595
	8,500	1,500	84,052	54,453	55,814	26,583	-11,788	6,080	0,595
	8,000	2,000	78,659	50,959	52,233	26,589	-11,786	5,827	0,595
	7,500	2,500	73,266	47,465	48,652	26,595	-11,785	5,573	0,595
	7,000	3,000	67,873	43,972	45,071	26,603	-11,783	5,319	0,594
	6,500	3,500	62,482	40,479	41,491	26,612	-11,781	5,064	0,594
	6,000	4,000	57,093	36,988	37,912	26,622	-11,778	4,809	0,593
	5,500	4,500	51,707	33,499	34,336	26,635	-11,775	4,552	0,591
	5,000	5,000	46,330	30,015	30,765	26,651	-11,771	4,295	0,588
	4,500	5,500	40,962	26,537	27,201	26,671	-11,767	4,036	0,584
	4,000	6,000	35,613	23,072	23,649	26,696	-11,761	3,775	0,576
	3,500	6,500	30,295	19,627	20,117	26,729	-11,754	3,512	0,564
	3,000	7,000	25,024	16,212	16,617	26,774	-11,745	3,247	0,546
	2,500	7,500	19,824	12,843	13,164	26,839	-11,733	2,978	0,519
	2,000	8,000	14,736	9,547	9,786	26,941	-11,717	2,705	0,480
	1,500	8,500	9,835	6,372	6,531	27,120	-11,694	2,422	0,418
	1,000	9,000	5,305	3,437	3,523	27,494	-11,660	2,120	0,319
	0,500	9,500	1,775	1,150	1,178	28,219	-11,621	1,796	0,170
	0,337	9,663	1,000	0,648	0,664	28,460	-11,605	1,692	0,119
	0,000	10,000	0,003	0,002	0,002	27,870	-11,064	1,619	0,004

Tank Calibrations - 2AL8B

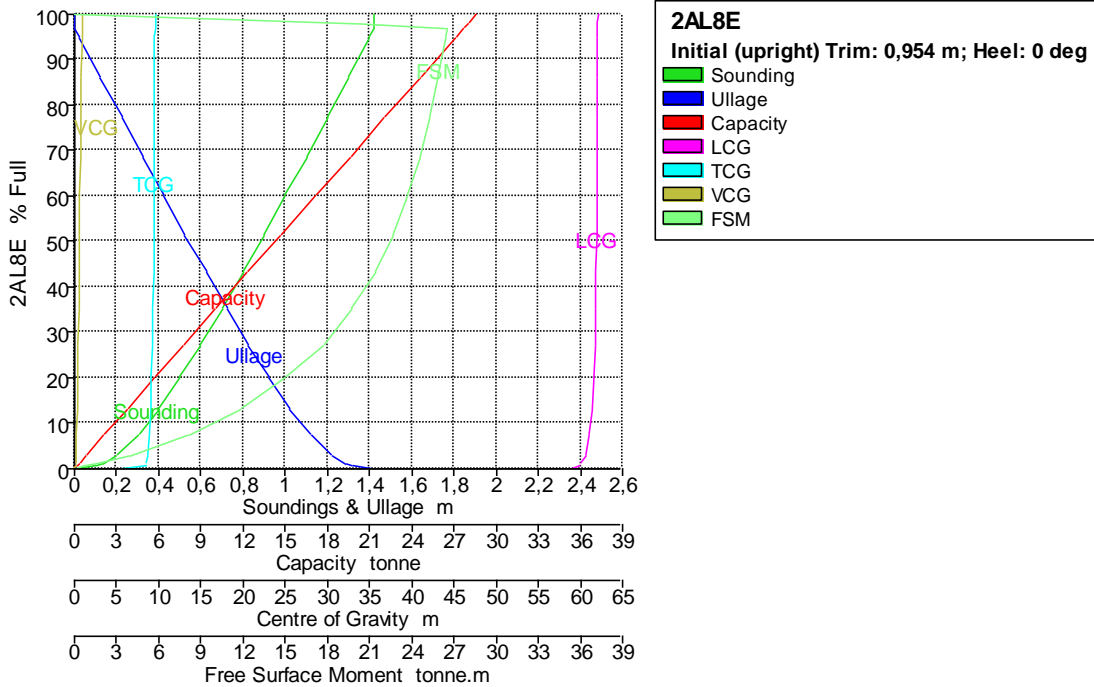
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL8B	1,424	0,000	100,000	27,880	28,577	62,096	-9,546	0,907	0,000
	1,424	0,000	98,000	27,323	28,006	62,059	-9,545	0,895	20,262
	1,424	0,000	97,900	27,295	27,977	62,058	-9,545	0,894	20,256
	1,424	0,000	96,950	27,030	27,706	62,054	-9,543	0,889	26,521
	1,400	0,024	94,830	26,439	27,100	62,050	-9,539	0,876	26,408
	1,300	0,124	85,959	23,966	24,565	62,033	-9,519	0,823	25,888
	1,200	0,224	77,159	21,512	22,050	62,014	-9,496	0,769	25,287
	1,100	0,324	68,443	19,082	19,559	61,990	-9,469	0,715	24,581
	1,000	0,424	59,831	16,681	17,098	61,961	-9,439	0,661	23,731
	0,900	0,524	51,350	14,317	14,674	61,925	-9,402	0,606	22,685
	0,800	0,624	43,038	11,999	12,299	61,878	-9,358	0,551	21,378
	0,700	0,724	34,953	9,745	9,989	61,817	-9,304	0,495	19,727
	0,600	0,824	27,174	7,576	7,766	61,733	-9,237	0,438	17,639
	0,500	0,924	19,827	5,528	5,666	61,612	-9,154	0,381	15,020
	0,400	1,024	13,101	3,653	3,744	61,425	-9,049	0,322	11,809
	0,300	1,124	7,303	2,036	2,087	61,111	-8,916	0,262	8,037
	0,200	1,224	2,939	0,819	0,840	60,586	-8,744	0,200	3,808
	0,128	1,296	1,000	0,279	0,286	60,086	-8,570	0,156	1,342
	0,100	1,324	0,535	0,149	0,153	59,857	-8,483	0,138	0,701
	0,000	1,424	0,000	0,000	0,000	58,838	-5,335	0,076	0,000

Tank Calibrations - 2AL8E

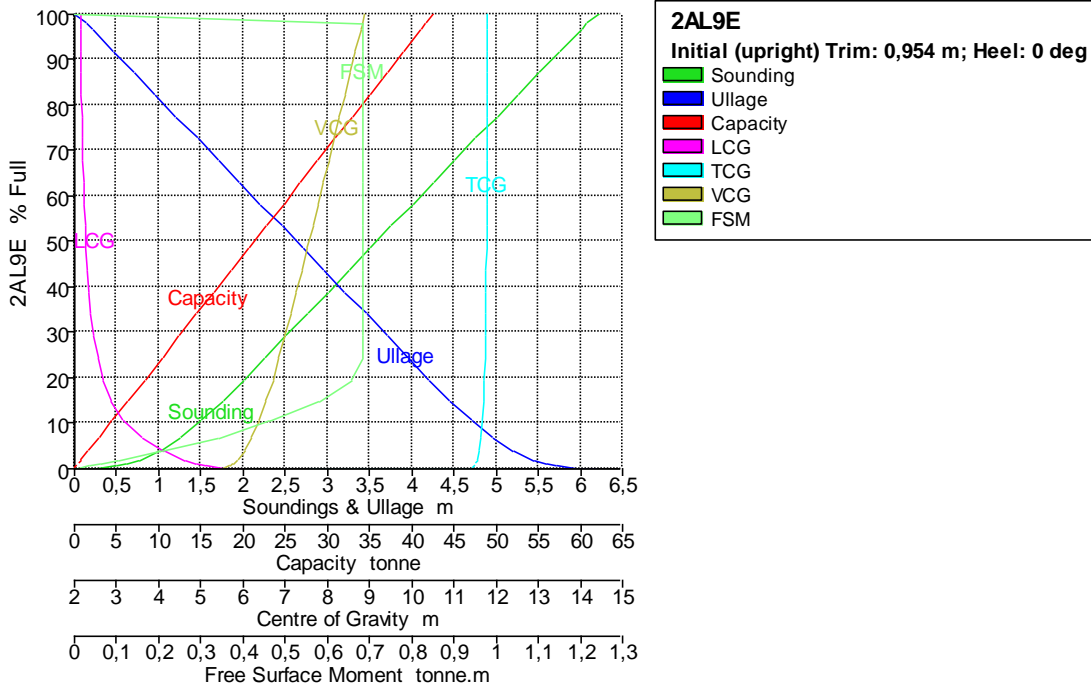
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL8E	1,424	0,000	100,000	27,880	28,577	62,096	9,546	0,907	0,000
	1,424	0,000	98,000	27,323	28,006	62,059	9,545	0,895	20,262
	1,424	0,000	97,900	27,295	27,977	62,058	9,545	0,894	20,256
	1,424	0,000	96,950	27,030	27,706	62,054	9,543	0,889	26,521
	1,400	0,024	94,830	26,439	27,100	62,050	9,539	0,876	26,408
	1,300	0,124	85,959	23,966	24,565	62,033	9,519	0,823	25,888
	1,200	0,224	77,159	21,512	22,050	62,014	9,496	0,769	25,287
	1,100	0,324	68,443	19,082	19,559	61,990	9,469	0,715	24,581
	1,000	0,424	59,831	16,681	17,098	61,961	9,439	0,661	23,731
	0,900	0,524	51,350	14,317	14,674	61,925	9,402	0,606	22,685
	0,800	0,624	43,038	11,999	12,299	61,878	9,358	0,551	21,378
	0,700	0,724	34,953	9,745	9,989	61,817	9,304	0,495	19,727
	0,600	0,824	27,174	7,576	7,766	61,733	9,237	0,438	17,639
	0,500	0,924	19,827	5,528	5,666	61,612	9,154	0,381	15,020
	0,400	1,024	13,101	3,653	3,744	61,425	9,049	0,322	11,809
	0,300	1,124	7,303	2,036	2,087	61,111	8,916	0,262	8,037
	0,200	1,224	2,939	0,819	0,840	60,586	8,744	0,200	3,808
	0,128	1,296	1,000	0,279	0,286	60,086	8,570	0,156	1,342
	0,100	1,324	0,535	0,149	0,153	59,857	8,483	0,138	0,701
	0,000	1,424	0,000	0,000	0,000	58,838	5,335	0,076	0,000

Tank Calibrations - 2AL9E

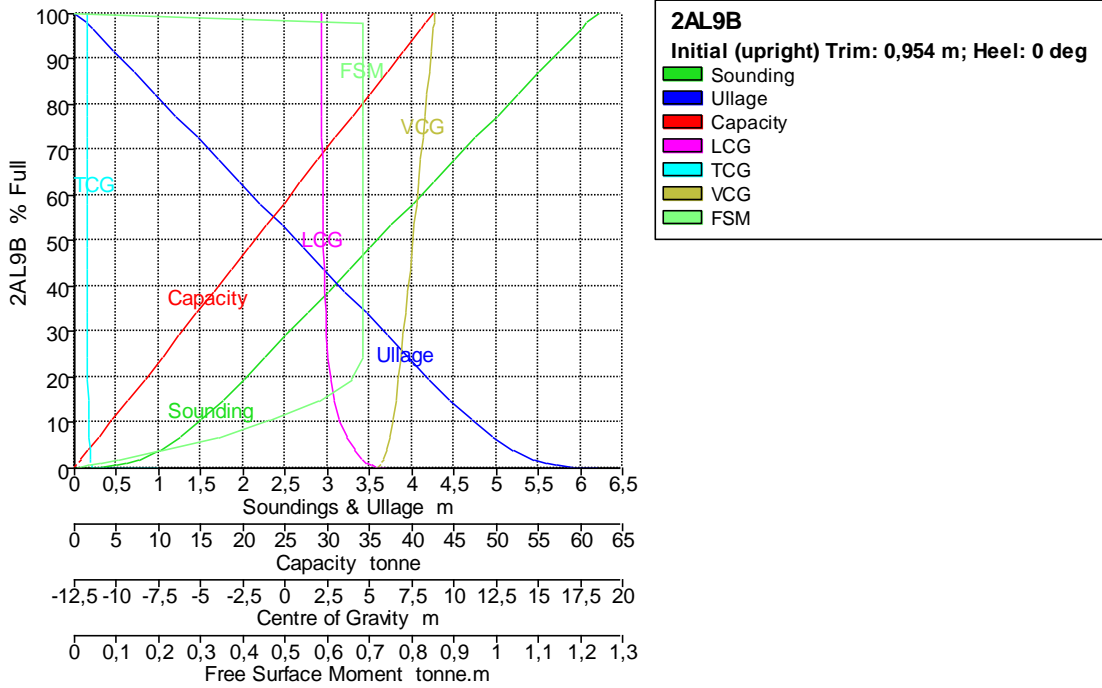
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL9E	6,218	0,000	100,000	41,486	42,523	2,144	11,791	8,885	0,000
	6,074	0,144	98,000	40,656	41,672	2,136	11,791	8,833	0,683
	6,069	0,149	97,900	40,614	41,630	2,136	11,791	8,831	0,683
	6,000	0,218	96,572	40,064	41,065	2,138	11,790	8,796	0,683
	5,750	0,468	91,751	38,064	39,015	2,145	11,790	8,670	0,683
	5,500	0,718	86,931	36,064	36,965	2,153	11,788	8,543	0,683
	5,250	0,968	82,110	34,064	34,915	2,162	11,787	8,417	0,683
	5,000	1,218	77,289	32,064	32,865	2,173	11,786	8,290	0,683
	4,750	1,468	72,468	30,064	30,815	2,184	11,784	8,163	0,683
	4,500	1,718	67,647	28,064	28,765	2,197	11,783	8,036	0,683
	4,250	1,968	62,826	26,064	26,715	2,212	11,781	7,909	0,683
	4,000	2,218	58,005	24,064	24,665	2,230	11,778	7,781	0,683
	3,750	2,468	53,184	22,064	22,615	2,251	11,775	7,653	0,683
	3,500	2,718	48,363	20,064	20,565	2,276	11,772	7,524	0,683
	3,250	2,968	43,542	18,064	18,515	2,306	11,768	7,394	0,683
	3,000	3,218	38,721	16,064	16,465	2,344	11,763	7,263	0,683
	2,750	3,468	33,900	14,064	14,415	2,393	11,756	7,130	0,683
	2,500	3,718	29,080	12,064	12,365	2,459	11,748	6,994	0,683
	2,250	3,968	24,259	10,064	10,316	2,550	11,735	6,854	0,683
	2,000	4,218	19,458	8,072	8,274	2,683	11,718	6,708	0,657
	1,750	4,468	14,794	6,137	6,291	2,881	11,694	6,554	0,578
	1,500	4,718	10,441	4,331	4,440	3,178	11,665	6,389	0,463
	1,250	4,968	6,633	2,752	2,821	3,621	11,633	6,213	0,339
	1,000	5,218	3,701	1,535	1,574	4,144	11,599	6,028	0,205
	0,750	5,468	1,726	0,716	0,734	4,645	11,557	5,844	0,101
	0,612	5,606	1,000	0,415	0,425	4,912	11,530	5,742	0,060
	0,500	5,718	0,577	0,239	0,245	5,123	11,502	5,659	0,034
	0,250	5,968	0,084	0,035	0,036	5,574	11,419	5,472	0,004
	0,000	6,218	0,000	0,000	0,000	5,994	7,540	5,282	0,000

Tank Calibrations - 2AL9B

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg

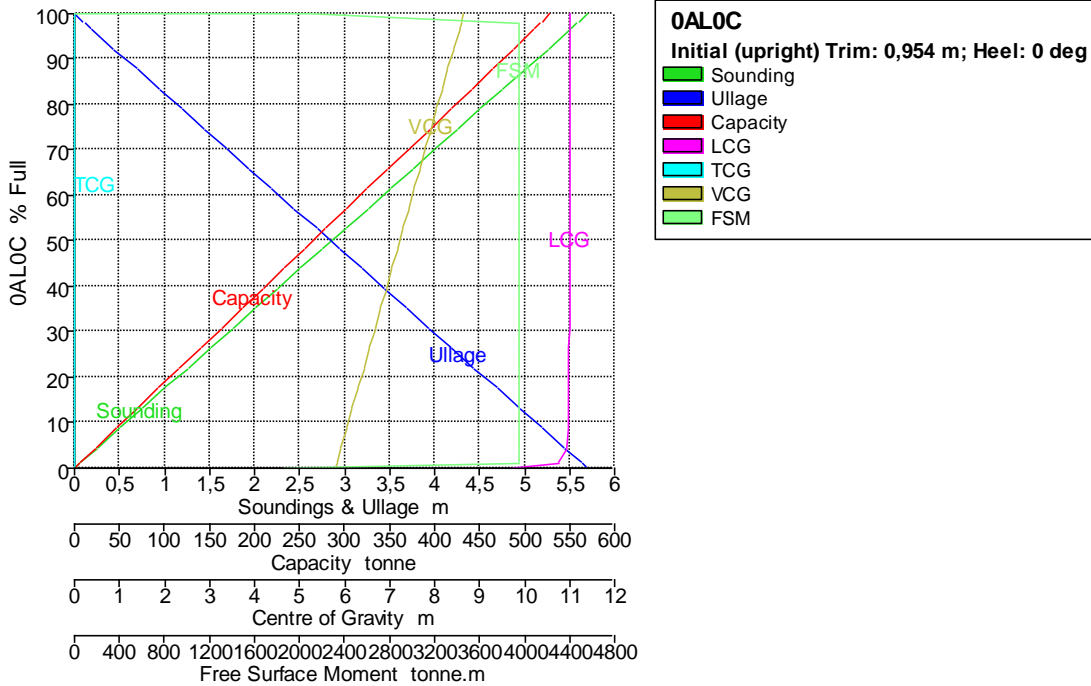


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL9B	6,218	0,000	100,000	41,486	42,523	2,144	-11,791	8,885	0,000
	6,074	0,144	98,000	40,656	41,672	2,136	-11,791	8,833	0,683
	6,069	0,149	97,900	40,614	41,630	2,136	-11,791	8,831	0,683
	6,000	0,218	96,572	40,064	41,065	2,138	-11,790	8,796	0,683
	5,750	0,468	91,751	38,064	39,015	2,145	-11,790	8,670	0,683
	5,500	0,718	86,931	36,064	36,965	2,153	-11,788	8,543	0,683
	5,250	0,968	82,110	34,064	34,915	2,162	-11,787	8,417	0,683
	5,000	1,218	77,289	32,064	32,865	2,173	-11,786	8,290	0,683
	4,750	1,468	72,468	30,064	30,815	2,184	-11,784	8,163	0,683
	4,500	1,718	67,647	28,064	28,765	2,197	-11,783	8,036	0,683
	4,250	1,968	62,826	26,064	26,715	2,212	-11,781	7,909	0,683
	4,000	2,218	58,005	24,064	24,665	2,230	-11,778	7,781	0,683
	3,750	2,468	53,184	22,064	22,615	2,251	-11,775	7,653	0,683
	3,500	2,718	48,363	20,064	20,565	2,276	-11,772	7,524	0,683
	3,250	2,968	43,542	18,064	18,515	2,306	-11,768	7,394	0,683
	3,000	3,218	38,721	16,064	16,465	2,344	-11,763	7,263	0,683
	2,750	3,468	33,900	14,064	14,415	2,393	-11,756	7,130	0,683
	2,500	3,718	29,080	12,064	12,365	2,459	-11,748	6,994	0,683
	2,250	3,968	24,259	10,064	10,316	2,550	-11,735	6,854	0,683
	2,000	4,218	19,458	8,072	8,274	2,683	-11,718	6,708	0,657
	1,750	4,468	14,794	6,137	6,291	2,881	-11,694	6,554	0,578
	1,500	4,718	10,441	4,331	4,440	3,178	-11,665	6,389	0,463
	1,250	4,968	6,633	2,752	2,821	3,621	-11,633	6,213	0,339
	1,000	5,218	3,701	1,535	1,574	4,144	-11,599	6,028	0,205
	0,750	5,468	1,726	0,716	0,734	4,645	-11,557	5,844	0,101
	0,612	5,606	1,000	0,415	0,425	4,912	-11,530	5,742	0,060
	0,500	5,718	0,577	0,239	0,245	5,123	-11,502	5,659	0,034
	0,250	5,968	0,084	0,035	0,036	5,574	-11,419	5,472	0,004

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,000	6,218	0,000	0,000	0,000	5,994	-7,540	5,282	0,000

Tank Calibrations - 0ALOC

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0ALOC	5,700	0,000	100,000	515,690	528,583	11,000	0,000	8,650	0,000
	5,700	0,000	99,909	515,221	528,102	10,999	0,000	8,647	2115,686
	5,586	0,114	98,000	505,377	518,011	10,998	0,000	8,593	3953,547
	5,581	0,119	97,900	504,861	517,482	10,998	0,000	8,590	3953,547
	5,500	0,200	96,485	497,563	510,002	10,998	0,000	8,550	3953,547
	5,250	0,450	92,099	474,945	486,818	10,997	0,000	8,425	3953,547
	5,000	0,700	87,713	452,327	463,635	10,997	0,000	8,300	3953,547
	4,750	0,950	83,327	429,709	440,451	10,997	0,000	8,175	3953,547
	4,500	1,200	78,941	407,091	417,268	10,997	0,000	8,050	3953,547
	4,250	1,450	74,555	384,473	394,085	10,997	0,000	7,925	3953,547
	4,000	1,700	70,169	361,855	370,901	10,997	0,000	7,800	3953,547
	3,750	1,950	65,783	339,237	347,718	10,996	0,000	7,675	3953,547
	3,500	2,200	61,397	316,619	324,534	10,996	0,000	7,550	3953,547
	3,250	2,450	57,011	294,001	301,351	10,996	0,000	7,425	3953,547
	3,000	2,700	52,625	271,383	278,167	10,996	0,000	7,300	3953,547
	2,750	2,950	48,239	248,765	254,984	10,995	0,000	7,175	3953,547
	2,500	3,200	43,853	226,147	231,800	10,995	0,000	7,050	3953,547
	2,250	3,450	39,467	203,529	208,617	10,994	0,000	6,925	3953,547
	2,000	3,700	35,081	180,911	185,434	10,993	0,000	6,800	3953,547
	1,750	3,950	30,695	158,293	162,250	10,992	0,000	6,675	3953,547
	1,500	4,200	26,309	135,675	139,067	10,991	0,000	6,550	3953,547

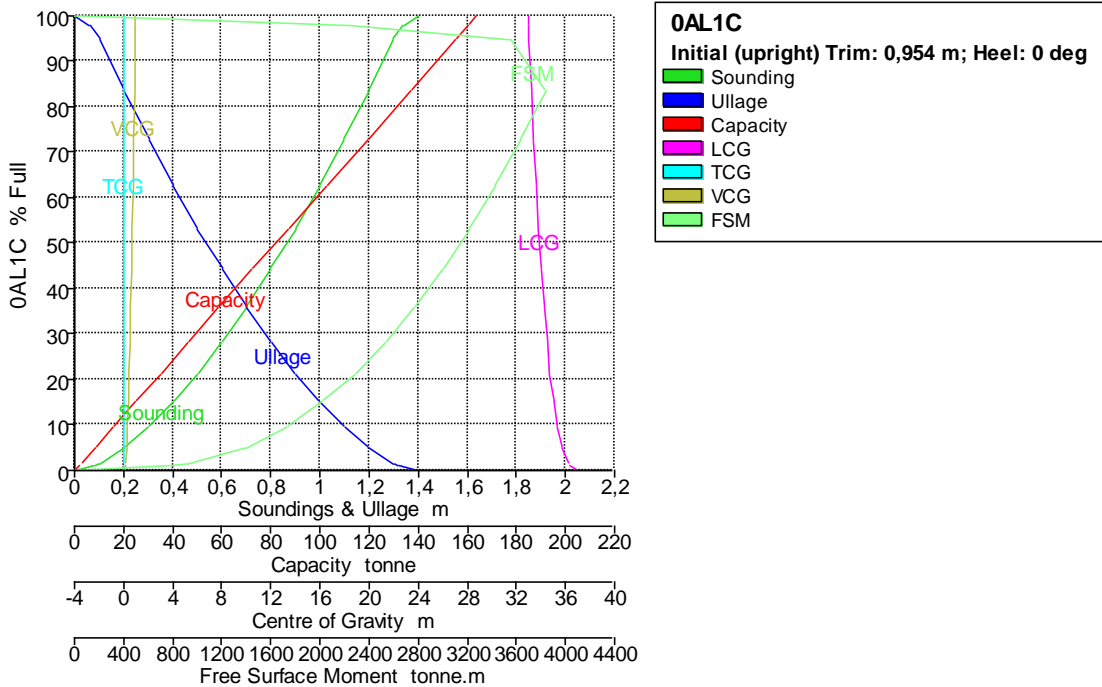
Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	1,250	4,450	21,923	113,057	115,883	10,989	0,000	6,425	3953,547
	1,000	4,700	17,537	90,439	92,700	10,987	0,000	6,300	3953,547
	0,750	4,950	13,151	67,821	69,516	10,982	0,000	6,175	3953,547
	0,500	5,200	8,765	45,203	46,333	10,973	0,000	6,050	3953,547
	0,250	5,450	4,380	22,585	23,149	10,947	0,000	5,925	3953,547
	0,057	5,643	1,000	5,157	5,286	10,766	0,000	5,830	3953,547
	0,000	5,700	0,085	0,436	0,447	9,654	0,000	5,803	1837,861

Tank Calibrations - 0AL1C

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = 0,954 m (+ve by stern); Heel = 0 deg

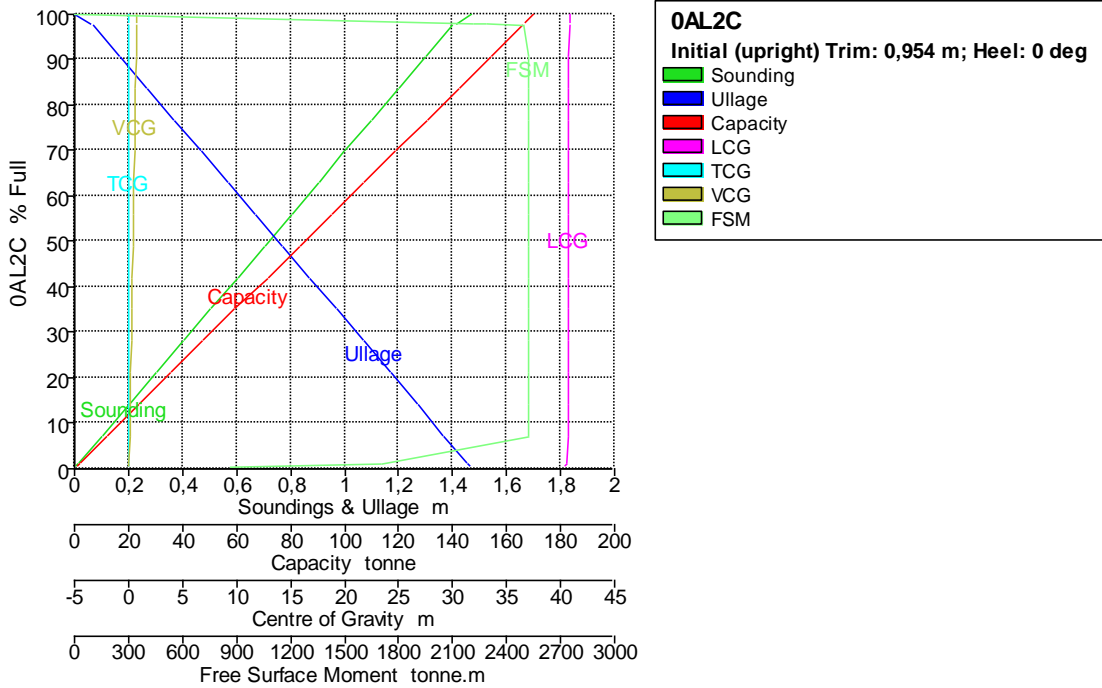


Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL1C	1,402	0,000	100,000	159,787	163,781	33,040	0,000	0,963	0,000
	1,400	0,002	99,997	159,782	163,776	33,040	0,000	0,963	65,114
	1,339	0,063	98,000	156,591	160,506	32,998	0,000	0,952	2243,930
	1,337	0,065	97,900	156,431	160,342	32,997	0,000	0,952	2243,930
	1,300	0,102	94,767	151,424	155,210	32,998	0,000	0,935	3551,219
	1,200	0,202	83,498	133,418	136,754	33,191	0,000	0,872	3843,389
	1,100	0,302	72,733	116,218	119,124	33,393	0,000	0,808	3637,178
	1,000	0,402	62,571	99,980	102,480	33,600	0,000	0,744	3428,286
	0,900	0,502	53,019	84,717	86,835	33,811	0,000	0,681	3214,448
	0,800	0,602	44,087	70,445	72,207	34,028	0,000	0,618	2994,188
	0,700	0,702	35,791	57,189	58,619	34,254	0,000	0,555	2766,559
	0,600	0,802	28,152	44,983	46,107	34,490	0,000	0,492	2530,717
	0,500	0,902	21,200	33,874	34,721	34,741	0,000	0,429	2289,225
	0,400	1,002	14,967	23,915	24,513	35,015	0,000	0,366	2017,728
	0,300	1,102	9,525	15,220	15,601	35,323	0,000	0,303	1724,287

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,200	1,202	4,981	7,959	8,158	35,690	0,000	0,240	1384,220
	0,100	1,302	1,552	2,480	2,542	36,189	0,000	0,175	905,324
	0,078	1,324	1,000	1,598	1,638	36,334	0,000	0,162	761,330
	0,000	1,402	0,000	0,000	0,000	37,173	0,000	0,098	0,000

Tank Calibrations - 0AL2C

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg

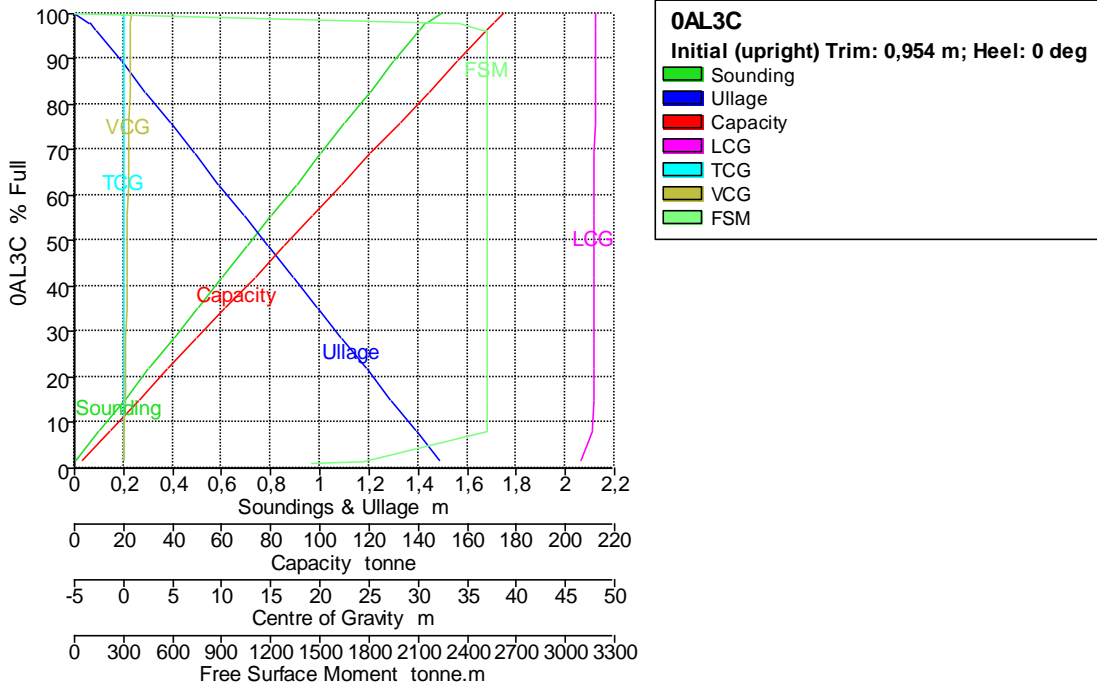


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL2C	1,472	0,000	100,000	165,617	169,757	40,827	0,000	0,781	0,000
	1,407	0,064	98,000	162,304	166,362	40,798	0,000	0,767	2221,144
	1,406	0,066	97,900	162,139	166,192	40,797	0,000	0,766	2293,772
	1,400	0,072	97,526	161,518	165,556	40,797	0,000	0,763	2497,253
	1,300	0,172	90,570	149,999	153,749	40,796	0,000	0,713	2519,166
	1,200	0,272	83,614	138,479	141,941	40,796	0,000	0,663	2519,166
	1,100	0,372	76,658	126,959	130,133	40,796	0,000	0,613	2519,166
	1,000	0,472	69,702	115,439	118,325	40,795	0,000	0,563	2519,166
	0,900	0,572	62,747	103,919	106,517	40,795	0,000	0,513	2519,166
	0,800	0,672	55,791	92,399	94,709	40,794	0,000	0,463	2519,166
	0,700	0,772	48,835	80,879	82,901	40,793	0,000	0,413	2519,166
	0,600	0,872	41,879	69,359	71,093	40,792	0,000	0,363	2519,166
	0,500	0,972	34,923	57,839	59,285	40,790	0,000	0,313	2519,166
	0,400	1,072	27,968	46,319	47,477	40,788	0,000	0,263	2519,166
	0,300	1,172	21,012	34,799	35,669	40,784	0,000	0,213	2519,166
	0,200	1,272	14,056	23,279	23,861	40,776	0,000	0,163	2519,166
	0,100	1,372	7,100	11,759	12,053	40,753	0,000	0,113	2519,166
	0,011	1,460	1,000	1,656	1,698	40,520	0,000	0,069	1701,313

Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,000	1,472	0,375	0,620	0,636	40,250	0,000	0,065	855,304

Tank Calibrations - 0AL3C

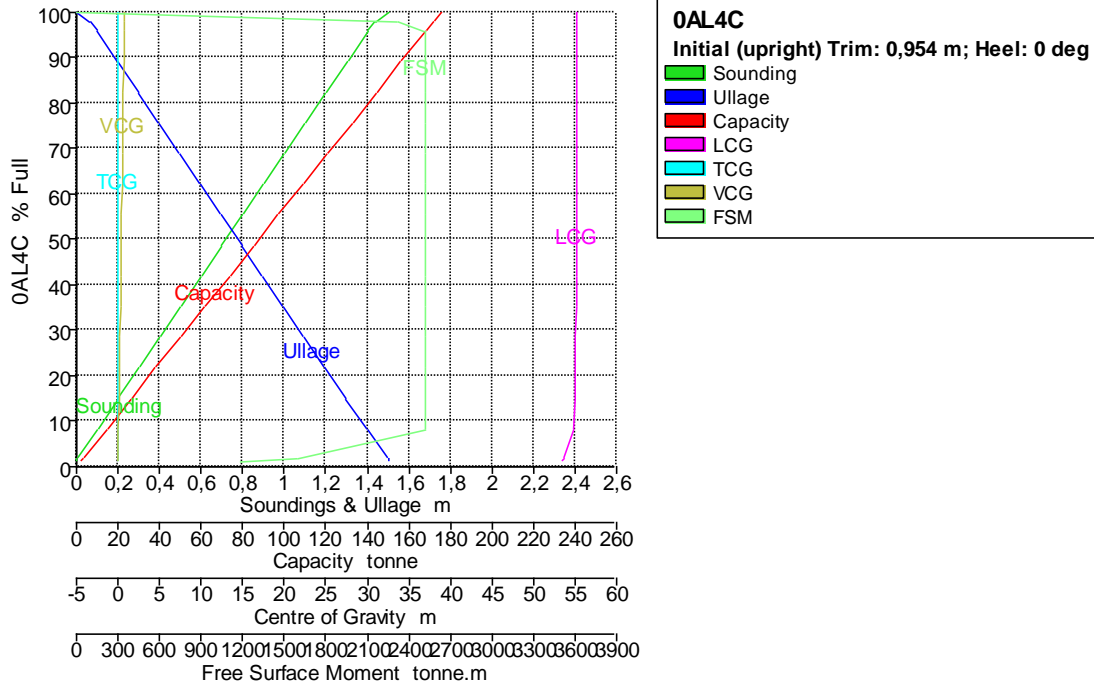
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL3C	1,493	0,000	100,000	170,025	174,275	48,008	0,000	0,762	0,000
	1,428	0,065	98,000	166,624	170,790	47,979	0,000	0,747	2270,986
	1,427	0,067	97,900	166,454	170,615	47,979	0,000	0,747	2343,613
	1,400	0,093	96,111	163,412	167,497	47,978	0,000	0,733	2519,166
	1,300	0,193	89,335	151,892	155,689	47,977	0,000	0,683	2519,166
	1,200	0,293	82,560	140,372	143,881	47,975	0,000	0,633	2519,166
	1,100	0,393	75,784	128,852	132,073	47,972	0,000	0,583	2519,166
	1,000	0,493	69,009	117,332	120,265	47,970	0,000	0,533	2519,166
	0,900	0,593	62,233	105,812	108,457	47,966	0,000	0,484	2519,166
	0,800	0,693	55,458	94,292	96,649	47,962	0,000	0,434	2519,166
	0,700	0,793	48,682	82,772	84,841	47,957	0,000	0,384	2519,166
	0,600	0,893	41,907	71,252	73,033	47,950	0,000	0,334	2519,166
	0,500	0,993	35,131	59,732	61,225	47,940	0,000	0,284	2519,166
	0,400	1,093	28,356	48,212	49,417	47,926	0,000	0,234	2519,166
	0,300	1,193	21,581	36,692	37,609	47,903	0,000	0,184	2519,166
	0,200	1,293	14,805	25,172	25,801	47,859	0,000	0,134	2519,166
	0,100	1,393	8,030	13,652	13,993	47,739	0,000	0,085	2519,166
	0,000	1,493	1,363	2,318	2,376	46,667	0,000	0,040	1750,886
	0,000	1,493	1,000	1,700	1,743	46,397	0,000	0,039	1443,464

Tank Calibrations - 0AL4C

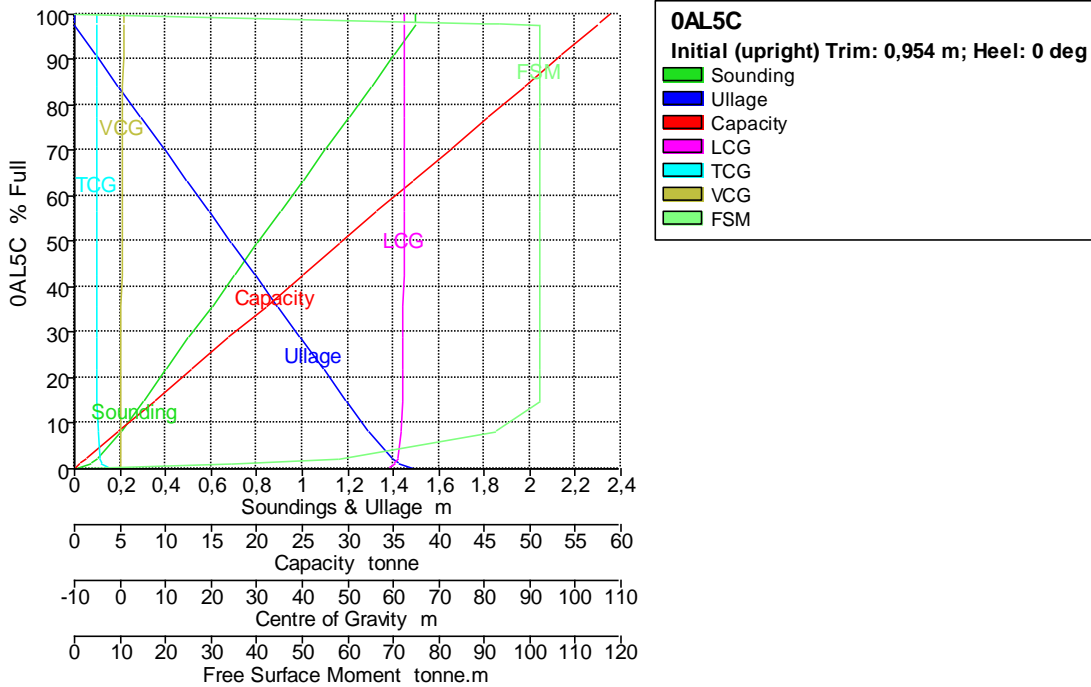
Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL4C	1,500	0,000	100,000	171,049	175,325	55,199	0,000	0,758	0,000
	1,434	0,065	98,000	167,628	171,819	55,170	0,000	0,743	2320,828
	1,433	0,067	97,900	167,457	171,644	55,169	0,000	0,742	2320,828
	1,400	0,100	95,700	163,693	167,786	55,168	0,000	0,726	2519,166
	1,300	0,200	88,965	152,173	155,978	55,166	0,000	0,676	2519,166
	1,200	0,300	82,230	140,653	144,170	55,163	0,000	0,626	2519,166
	1,100	0,400	75,495	129,133	132,362	55,160	0,000	0,576	2519,166
	1,000	0,500	68,760	117,613	120,554	55,156	0,000	0,526	2519,166
	0,900	0,600	62,025	106,093	108,746	55,151	0,000	0,476	2519,166
	0,800	0,700	55,290	94,573	96,938	55,145	0,000	0,426	2519,166
	0,700	0,800	48,555	83,053	85,130	55,138	0,000	0,376	2519,166
	0,600	0,900	41,820	71,533	73,322	55,128	0,000	0,326	2519,166
	0,500	1,000	35,085	60,013	61,514	55,114	0,000	0,276	2519,166
	0,400	1,100	28,350	48,493	49,706	55,093	0,000	0,226	2519,166
	0,300	1,200	21,616	36,973	37,898	55,060	0,000	0,176	2519,166
	0,200	1,300	14,881	25,453	26,090	54,996	0,000	0,126	2519,166
	0,100	1,400	8,146	13,933	14,282	54,828	0,000	0,077	2519,166
	0,000	1,500	1,656	2,832	2,903	53,735	0,000	0,030	1590,974
	0,000	1,500	1,000	1,710	1,753	53,320	0,000	0,026	1172,268

Tank Calibrations - 0AL5C

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



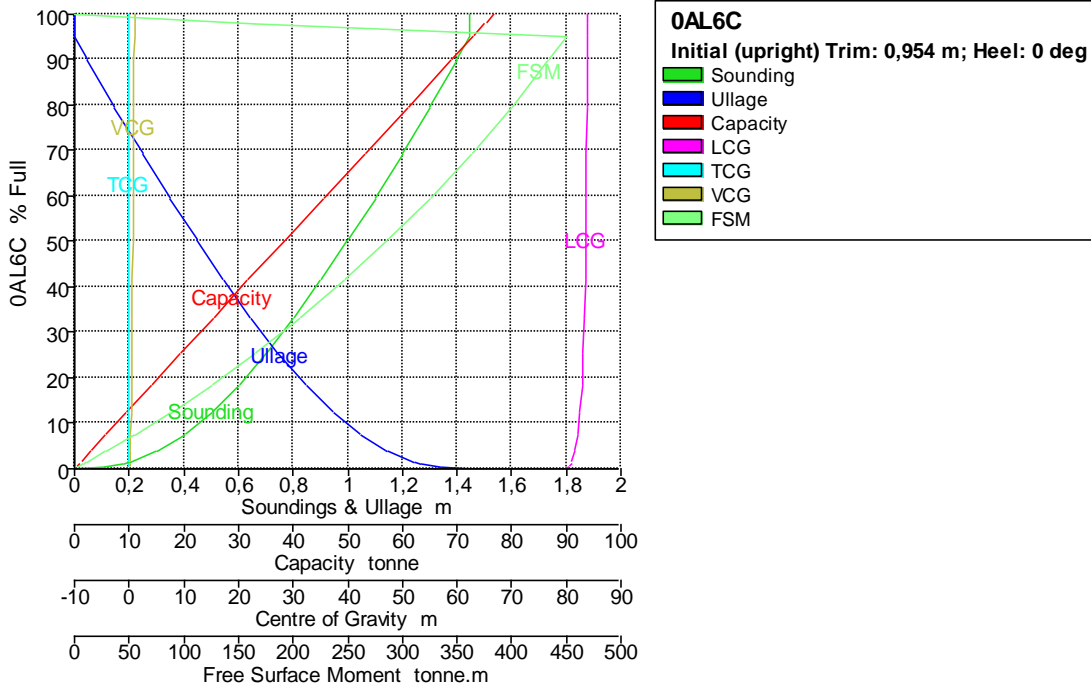
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL5C	1,496	0,000	100,000	57,326	58,759	62,373	-5,212	0,776	0,000
	1,496	0,000	98,000	56,180	57,584	62,343	-5,211	0,761	90,394
	1,496	0,000	97,900	56,122	57,525	62,342	-5,211	0,760	93,344
	1,496	0,000	97,513	55,901	57,298	62,342	-5,211	0,758	102,326
	1,400	0,096	90,872	52,094	53,396	62,337	-5,208	0,710	102,326
	1,300	0,196	83,964	48,134	49,337	62,332	-5,205	0,660	102,326
	1,200	0,296	77,056	44,174	45,278	62,326	-5,201	0,610	102,326
	1,100	0,396	70,149	40,214	41,219	62,319	-5,196	0,559	102,326
	1,000	0,496	63,241	36,254	37,160	62,310	-5,190	0,509	102,326
	0,900	0,596	56,333	32,294	33,101	62,299	-5,183	0,459	102,326
	0,800	0,696	49,425	28,334	29,042	62,285	-5,173	0,409	102,326
	0,700	0,796	42,517	24,374	24,983	62,266	-5,161	0,359	102,326
	0,600	0,896	35,609	20,414	20,924	62,240	-5,143	0,309	102,326
	0,500	0,996	28,702	16,454	16,865	62,202	-5,118	0,258	102,326
	0,400	1,096	21,794	12,494	12,806	62,139	-5,076	0,208	102,326
	0,300	1,196	14,886	8,534	8,747	62,018	-4,995	0,157	102,260
	0,200	1,296	8,076	4,630	4,746	61,732	-4,809	0,105	92,446
	0,100	1,396	2,161	1,239	1,270	60,886	-4,378	0,053	57,754
	0,071	1,425	1,000	0,573	0,588	60,376	-4,154	0,039	34,179
	0,000	1,496	0,000	0,000	0,000	58,838	-1,673	0,004	0,000

Tank Calibrations - 0AL6C

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

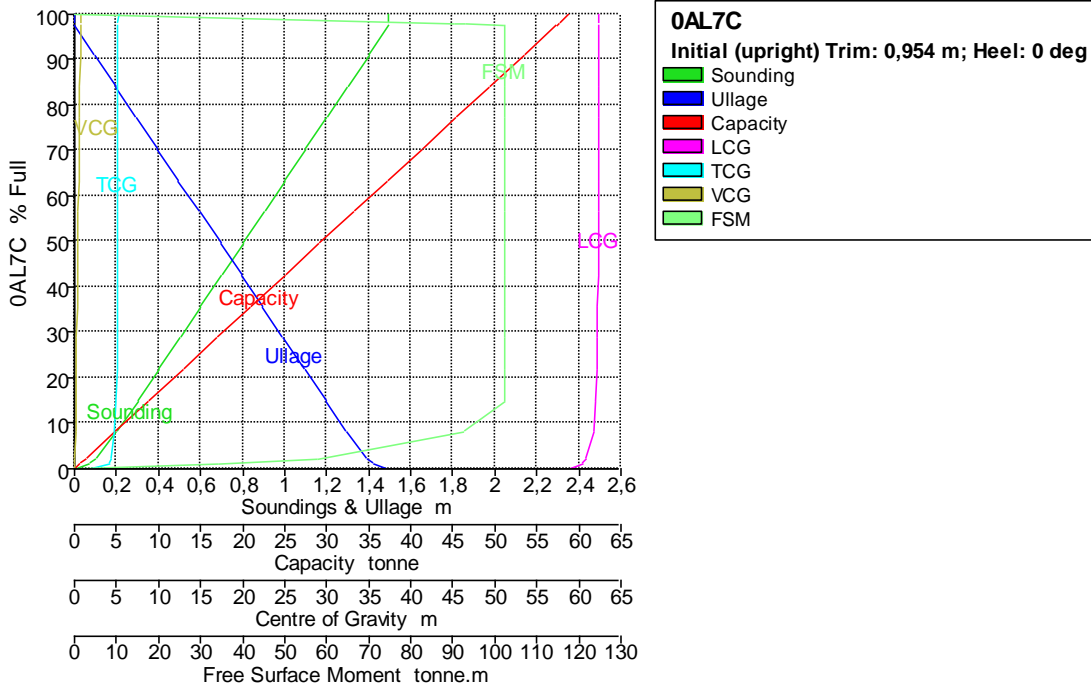
Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL6C	1,448	0,000	100,000	74,799	76,669	83,932	0,000	0,968	0,000
	1,448	0,000	98,000	73,303	75,136	83,853	0,000	0,958	165,636
	1,448	0,000	97,900	73,229	75,059	83,851	0,000	0,957	165,417
	1,448	0,000	94,956	71,027	72,802	83,810	0,000	0,941	449,721
	1,400	0,048	89,778	67,154	68,832	83,791	0,000	0,913	433,439
	1,300	0,148	79,322	59,333	60,816	83,746	0,000	0,855	398,691
	1,200	0,248	69,200	51,761	53,055	83,693	0,000	0,796	362,454
	1,100	0,348	59,449	44,468	45,579	83,628	0,000	0,737	324,803
	1,000	0,448	50,117	37,487	38,424	83,547	0,000	0,678	285,859
	0,900	0,548	41,258	30,861	31,633	83,445	0,000	0,618	245,864
	0,800	0,648	32,942	24,640	25,256	83,312	0,000	0,558	205,217
	0,700	0,748	25,253	18,889	19,361	83,133	0,000	0,497	164,547
	0,600	0,848	18,304	13,691	14,033	82,884	0,000	0,435	124,800
	0,500	0,948	12,252	9,164	9,393	82,535	0,000	0,372	87,398
	0,400	1,048	7,333	5,485	5,622	82,094	0,000	0,309	54,365
	0,300	1,148	3,699	2,767	2,836	81,596	0,000	0,245	27,864
	0,200	1,248	1,357	1,015	1,040	81,028	0,000	0,181	9,845
	0,177	1,271	1,000	0,748	0,767	80,888	0,000	0,166	7,086
	0,100	1,348	0,223	0,167	0,171	80,361	0,000	0,116	1,313
	0,000	1,448	0,000	0,000	0,000	79,557	0,000	0,052	0,000

Tank Calibrations - 0AL7C

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



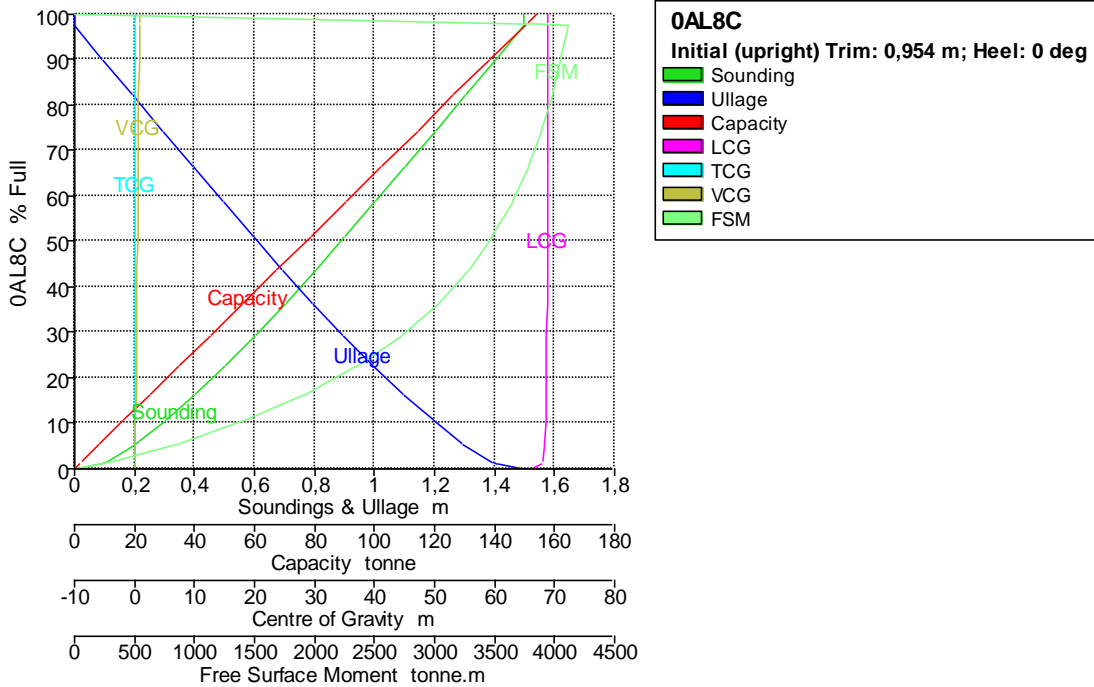
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0AL7C	1,496	0,000	100,000	57,326	58,759	62,373	5,212	0,776	0,000
	1,496	0,000	98,000	56,180	57,584	62,343	5,211	0,761	90,394
	1,496	0,000	97,900	56,122	57,525	62,342	5,211	0,760	93,344
	1,496	0,000	97,513	55,901	57,298	62,342	5,211	0,758	102,326
	1,400	0,096	90,872	52,094	53,396	62,337	5,208	0,710	102,326
	1,300	0,196	83,964	48,134	49,337	62,332	5,205	0,660	102,326
	1,200	0,296	77,056	44,174	45,278	62,326	5,201	0,610	102,326
	1,100	0,396	70,149	40,214	41,219	62,319	5,196	0,559	102,326
	1,000	0,496	63,241	36,254	37,160	62,310	5,190	0,509	102,326
	0,900	0,596	56,333	32,294	33,101	62,299	5,183	0,459	102,326
	0,800	0,696	49,425	28,334	29,042	62,285	5,173	0,409	102,326
	0,700	0,796	42,517	24,374	24,983	62,266	5,161	0,359	102,326
	0,600	0,896	35,609	20,414	20,924	62,240	5,143	0,309	102,326
	0,500	0,996	28,702	16,454	16,865	62,202	5,118	0,258	102,326
	0,400	1,096	21,794	12,494	12,806	62,139	5,076	0,208	102,326
	0,300	1,196	14,886	8,534	8,747	62,018	4,995	0,157	102,260
	0,200	1,296	8,076	4,630	4,746	61,732	4,809	0,105	92,446
	0,100	1,396	2,161	1,239	1,270	60,886	4,378	0,053	57,754
	0,071	1,425	1,000	0,573	0,588	60,376	4,154	0,039	34,179
	0,000	1,496	0,000	0,000	0,000	58,838	1,673	0,004	0,000

Tank Calibrations - 0AL8C

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

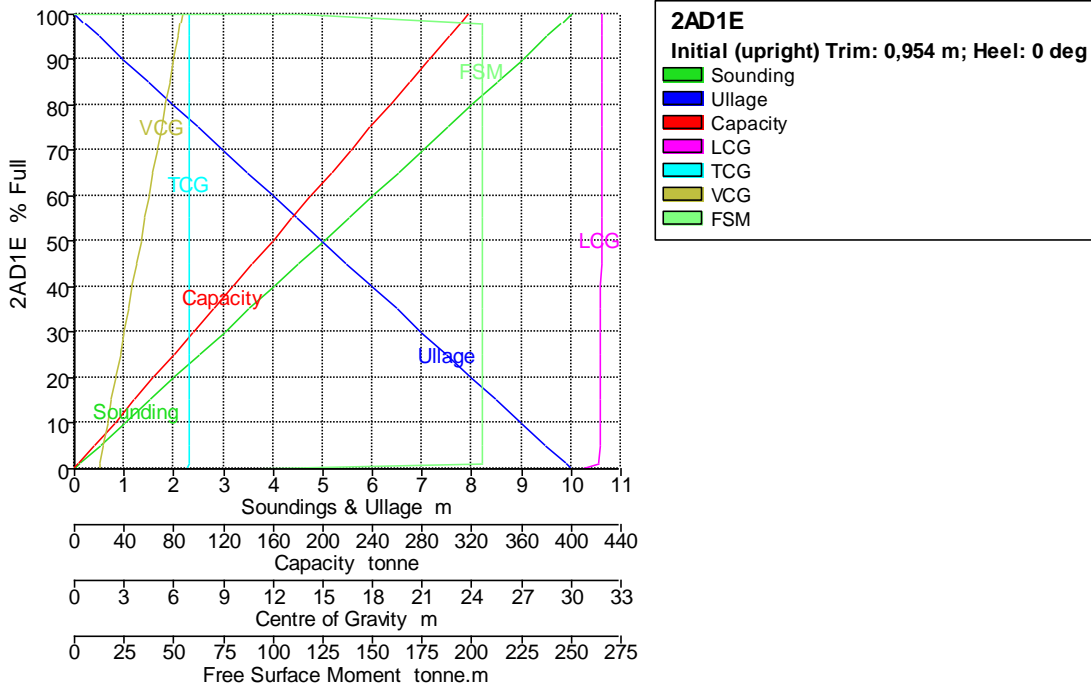
Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
OAL8C	1,498	0,000	100,000	149,995	153,745	68,853	0,000	0,839	0,000
	1,498	0,000	98,000	146,995	150,670	68,828	0,000	0,826	3691,135
	1,498	0,000	97,900	146,845	150,517	68,828	0,000	0,825	3866,922
	1,498	0,000	97,680	146,515	150,178	68,828	0,000	0,824	4109,282
	1,400	0,098	89,887	134,826	138,196	68,821	0,000	0,772	4050,422
	1,300	0,198	81,969	122,949	126,023	68,814	0,000	0,719	3978,344
	1,200	0,298	74,106	111,155	113,934	68,805	0,000	0,665	3890,700
	1,100	0,398	66,311	99,464	101,950	68,795	0,000	0,611	3783,028
	1,000	0,498	58,603	87,901	90,099	68,783	0,000	0,557	3649,822
	0,900	0,598	51,003	76,503	78,415	68,770	0,000	0,503	3484,380
	0,800	0,698	43,544	65,315	66,947	68,754	0,000	0,448	3278,890
	0,700	0,798	36,267	54,398	55,758	68,734	0,000	0,392	3025,004
	0,600	0,898	29,224	43,835	44,930	68,710	0,000	0,336	2714,812
	0,500	0,998	22,487	33,729	34,572	68,679	0,000	0,280	2341,671
	0,400	1,098	16,151	24,226	24,831	68,634	0,000	0,223	1902,346
	0,300	1,198	10,352	15,528	15,916	68,564	0,000	0,166	1398,510
	0,200	1,298	5,308	7,962	8,161	68,427	0,000	0,108	841,093
	0,100	1,398	1,442	2,164	2,218	67,981	0,000	0,051	283,583
	0,084	1,414	1,000	1,500	1,537	67,799	0,000	0,043	206,777
	0,000	1,498	0,000	0,000	0,000	66,059	0,000	0,002	0,000

Tank Calibrations - 2AD1E

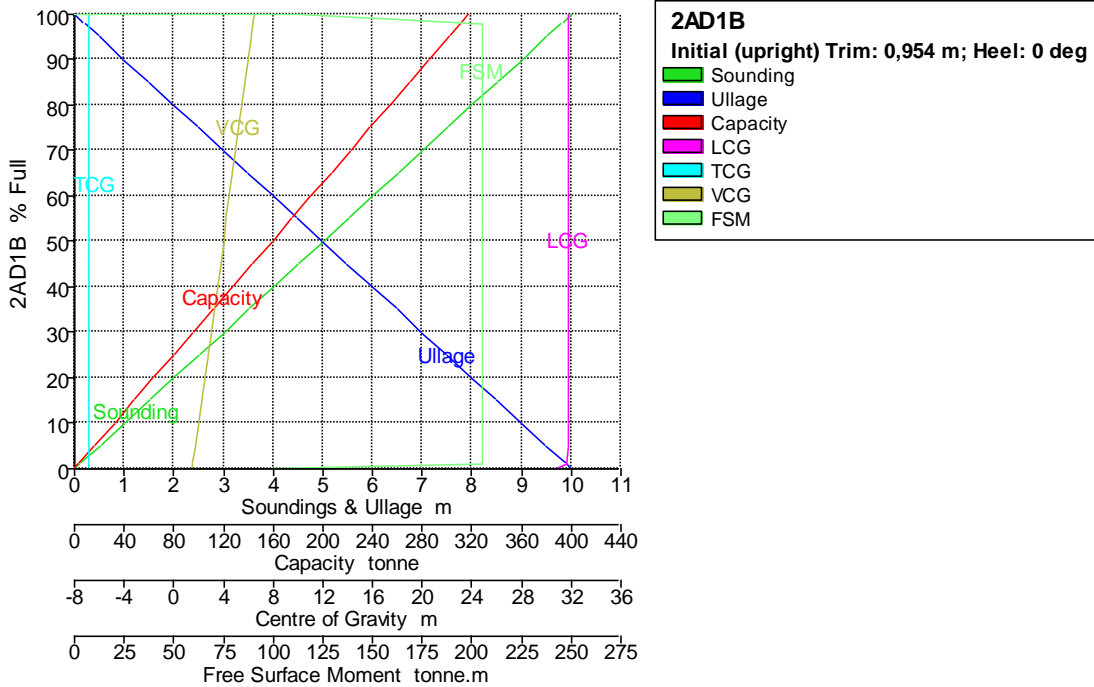
Fluid Type = AD Specific gravity = 1
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AD1E	10,000	0,000	100,000	317,124	317,124	31,800	6,905	6,500	0,000
	10,000	0,000	99,951	316,968	316,968	31,799	6,905	6,498	112,968
	9,801	0,199	98,000	310,782	310,782	31,799	6,905	6,400	205,080
	9,791	0,209	97,900	310,464	310,464	31,799	6,905	6,395	205,080
	9,500	0,500	94,992	301,243	301,243	31,799	6,905	6,250	205,080
	9,000	1,000	89,992	285,386	285,386	31,799	6,905	6,000	205,080
	8,500	1,500	84,992	269,530	269,530	31,799	6,905	5,750	205,080
	8,000	2,000	79,992	253,674	253,674	31,799	6,905	5,500	205,080
	7,500	2,500	74,992	237,818	237,818	31,799	6,905	5,250	205,080
	7,000	3,000	69,992	221,962	221,962	31,798	6,905	5,000	205,080
	6,500	3,500	64,992	206,105	206,105	31,798	6,905	4,750	205,080
	6,000	4,000	59,992	190,249	190,249	31,798	6,905	4,500	205,080
	5,500	4,500	54,992	174,393	174,393	31,798	6,905	4,250	205,080
	5,000	5,000	49,992	158,537	158,537	31,798	6,905	4,000	205,080
	4,500	5,500	44,992	142,681	142,681	31,798	6,905	3,750	205,080
	4,000	6,000	39,992	126,824	126,824	31,797	6,905	3,500	205,080
	3,500	6,500	34,992	110,968	110,968	31,797	6,905	3,250	205,080
	3,000	7,000	29,992	95,112	95,112	31,796	6,905	3,000	205,080
	2,500	7,500	24,992	79,256	79,256	31,796	6,905	2,750	205,080
	2,000	8,000	19,992	63,400	63,400	31,795	6,905	2,500	205,080
	1,500	8,500	14,992	47,543	47,543	31,793	6,905	2,250	205,080
	1,000	9,000	9,992	31,687	31,687	31,789	6,905	2,000	205,080
	0,500	9,500	4,992	15,831	15,831	31,778	6,905	1,750	205,080
	0,101	9,899	1,000	3,171	3,171	31,692	6,905	1,551	205,080
	0,000	10,000	0,041	0,130	0,130	30,574	6,871	1,523	92,112

Tank Calibrations - 2AD1B

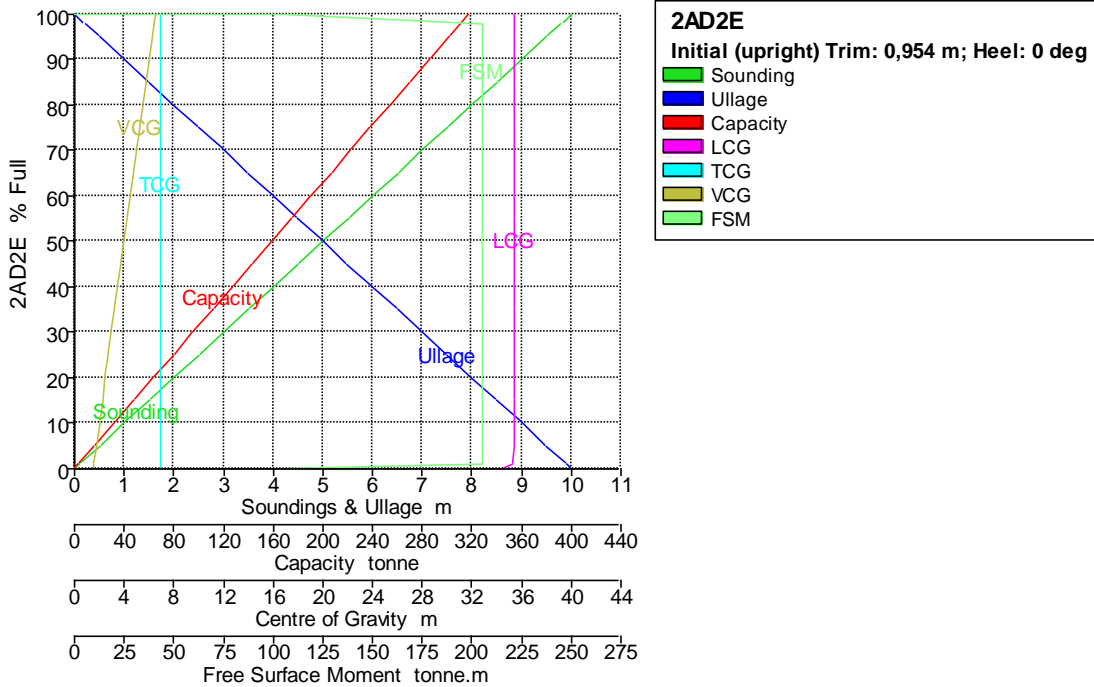
Fluid Type = AD Specific gravity = 1
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AD1B	10,000	0,000	100,000	317,124	317,124	31,800	-6,905	6,500	0,000
	10,000	0,000	99,951	316,968	316,968	31,799	-6,905	6,498	112,968
	9,801	0,199	98,000	310,782	310,782	31,799	-6,905	6,400	205,080
	9,791	0,209	97,900	310,464	310,464	31,799	-6,905	6,395	205,080
	9,500	0,500	94,992	301,243	301,243	31,799	-6,905	6,250	205,080
	9,000	1,000	89,992	285,386	285,386	31,799	-6,905	6,000	205,080
	8,500	1,500	84,992	269,530	269,530	31,799	-6,905	5,750	205,080
	8,000	2,000	79,992	253,674	253,674	31,799	-6,905	5,500	205,080
	7,500	2,500	74,992	237,818	237,818	31,799	-6,905	5,250	205,080
	7,000	3,000	69,992	221,962	221,962	31,798	-6,905	5,000	205,080
	6,500	3,500	64,992	206,105	206,105	31,798	-6,905	4,750	205,080
	6,000	4,000	59,992	190,249	190,249	31,798	-6,905	4,500	205,080
	5,500	4,500	54,992	174,393	174,393	31,798	-6,905	4,250	205,080
	5,000	5,000	49,992	158,537	158,537	31,798	-6,905	4,000	205,080
	4,500	5,500	44,992	142,681	142,681	31,798	-6,905	3,750	205,080
	4,000	6,000	39,992	126,824	126,824	31,797	-6,905	3,500	205,080
	3,500	6,500	34,992	110,968	110,968	31,797	-6,905	3,250	205,080
	3,000	7,000	29,992	95,112	95,112	31,796	-6,905	3,000	205,080
	2,500	7,500	24,992	79,256	79,256	31,796	-6,905	2,750	205,080
	2,000	8,000	19,992	63,400	63,400	31,795	-6,905	2,500	205,080
	1,500	8,500	14,992	47,543	47,543	31,793	-6,905	2,250	205,080
	1,000	9,000	9,992	31,687	31,687	31,789	-6,905	2,000	205,080
	0,500	9,500	4,992	15,831	15,831	31,778	-6,905	1,750	205,080
	0,101	9,899	1,000	3,171	3,171	31,692	-6,905	1,551	205,080
	0,000	10,000	0,041	0,130	0,130	30,574	-6,871	1,523	92,112

Tank Calibrations - 2AD2E

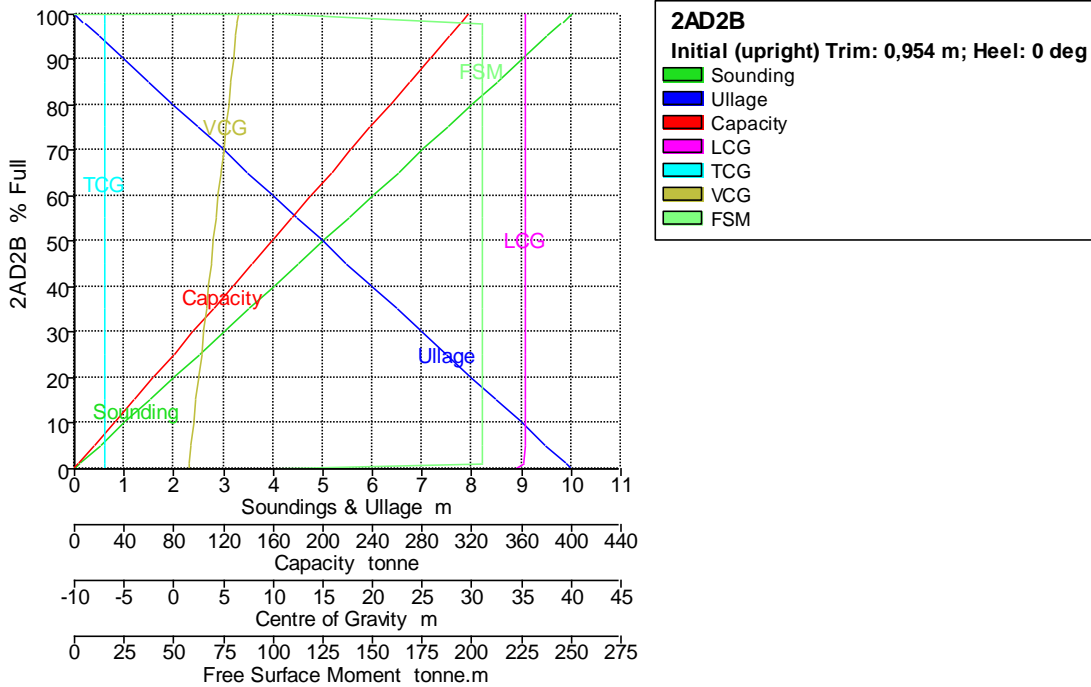
Fluid Type = AD Specific gravity = 1
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AD2E	10,000	0,000	100,000	317,124	317,124	35,400	6,905	6,500	0,000
	10,000	0,000	99,958	316,990	316,990	35,399	6,905	6,498	105,200
	9,799	0,201	98,000	310,781	310,781	35,399	6,905	6,400	205,080
	9,789	0,211	97,900	310,464	310,464	35,399	6,905	6,395	205,080
	9,500	0,500	95,006	301,286	301,286	35,399	6,905	6,250	205,080
	9,000	1,000	90,006	285,430	285,430	35,399	6,905	6,000	205,080
	8,500	1,500	85,006	269,573	269,573	35,399	6,905	5,750	205,080
	8,000	2,000	80,006	253,717	253,717	35,399	6,905	5,500	205,080
	7,500	2,500	75,006	237,861	237,861	35,399	6,905	5,250	205,080
	7,000	3,000	70,006	222,005	222,005	35,398	6,905	5,000	205,080
	6,500	3,500	65,006	206,149	206,149	35,398	6,905	4,750	205,080
	6,000	4,000	60,006	190,292	190,292	35,398	6,905	4,500	205,080
	5,500	4,500	55,006	174,436	174,436	35,398	6,905	4,250	205,080
	5,000	5,000	50,006	158,580	158,580	35,398	6,905	4,000	205,080
	4,500	5,500	45,006	142,724	142,724	35,398	6,905	3,750	205,080
	4,000	6,000	40,006	126,868	126,868	35,397	6,905	3,500	205,080
	3,500	6,500	35,006	111,011	111,011	35,397	6,905	3,250	205,080
	3,000	7,000	30,006	95,155	95,155	35,396	6,905	3,000	205,080
	2,500	7,500	25,006	79,299	79,299	35,396	6,905	2,750	205,080
	2,000	8,000	20,006	63,443	63,443	35,395	6,905	2,500	205,080
	1,500	8,500	15,006	47,587	47,587	35,393	6,905	2,250	205,080
	1,000	9,000	10,006	31,730	31,730	35,389	6,905	2,000	205,080
	0,500	9,500	5,006	15,874	15,874	35,378	6,905	1,750	205,080
	0,099	9,901	1,000	3,171	3,171	35,292	6,905	1,551	205,080
	0,000	10,000	0,048	0,152	0,152	34,219	6,876	1,521	99,879

Tank Calibrations - 2AD2B

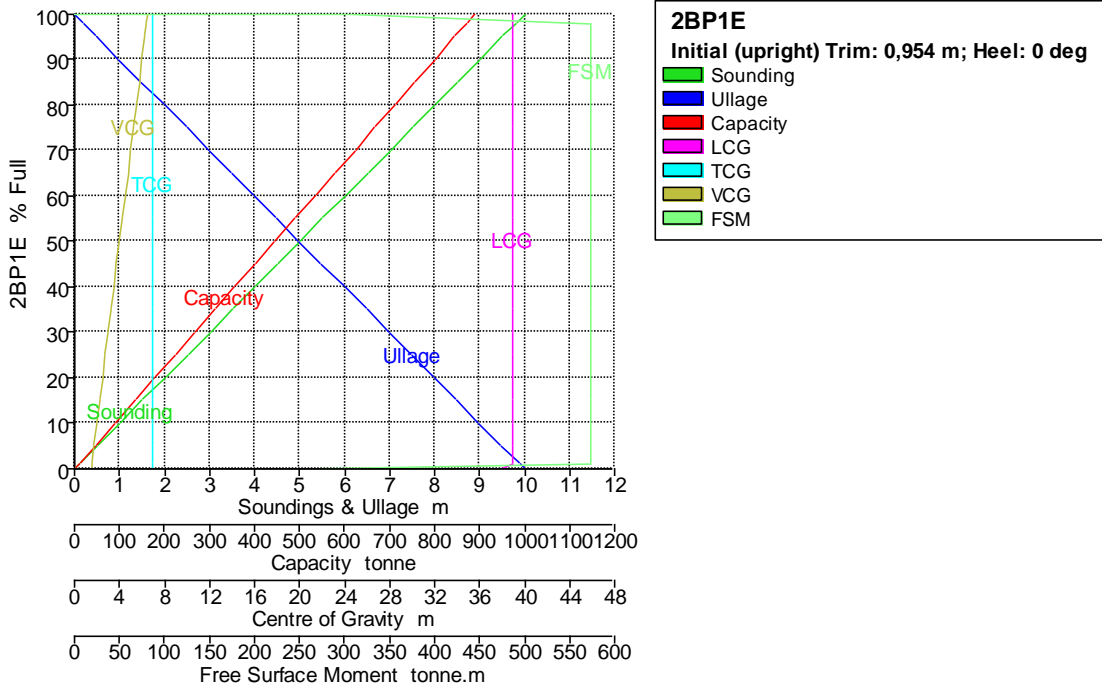
Fluid Type = AD Specific gravity = 1
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AD2B	10,000	0,000	100,000	317,124	317,124	35,400	-6,905	6,500	0,000
	10,000	0,000	99,958	316,990	316,990	35,399	-6,905	6,498	105,200
	9,799	0,201	98,000	310,781	310,781	35,399	-6,905	6,400	205,080
	9,789	0,211	97,900	310,464	310,464	35,399	-6,905	6,395	205,080
	9,500	0,500	95,006	301,286	301,286	35,399	-6,905	6,250	205,080
	9,000	1,000	90,006	285,430	285,430	35,399	-6,905	6,000	205,080
	8,500	1,500	85,006	269,573	269,573	35,399	-6,905	5,750	205,080
	8,000	2,000	80,006	253,717	253,717	35,399	-6,905	5,500	205,080
	7,500	2,500	75,006	237,861	237,861	35,399	-6,905	5,250	205,080
	7,000	3,000	70,006	222,005	222,005	35,398	-6,905	5,000	205,080
	6,500	3,500	65,006	206,149	206,149	35,398	-6,905	4,750	205,080
	6,000	4,000	60,006	190,292	190,292	35,398	-6,905	4,500	205,080
	5,500	4,500	55,006	174,436	174,436	35,398	-6,905	4,250	205,080
	5,000	5,000	50,006	158,580	158,580	35,398	-6,905	4,000	205,080
	4,500	5,500	45,006	142,724	142,724	35,398	-6,905	3,750	205,080
	4,000	6,000	40,006	126,868	126,868	35,397	-6,905	3,500	205,080
	3,500	6,500	35,006	111,011	111,011	35,397	-6,905	3,250	205,080
	3,000	7,000	30,006	95,155	95,155	35,396	-6,905	3,000	205,080
	2,500	7,500	25,006	79,299	79,299	35,396	-6,905	2,750	205,080
	2,000	8,000	20,006	63,443	63,443	35,395	-6,905	2,500	205,080
	1,500	8,500	15,006	47,587	47,587	35,393	-6,905	2,250	205,080
	1,000	9,000	10,006	31,730	31,730	35,389	-6,905	2,000	205,080
	0,500	9,500	5,006	15,874	15,874	35,378	-6,905	1,750	205,080
	0,099	9,901	1,000	3,171	3,171	35,292	-6,905	1,551	205,080
	0,000	10,000	0,048	0,152	0,152	34,219	-6,876	1,521	99,879

Tank Calibrations - 2BP1E

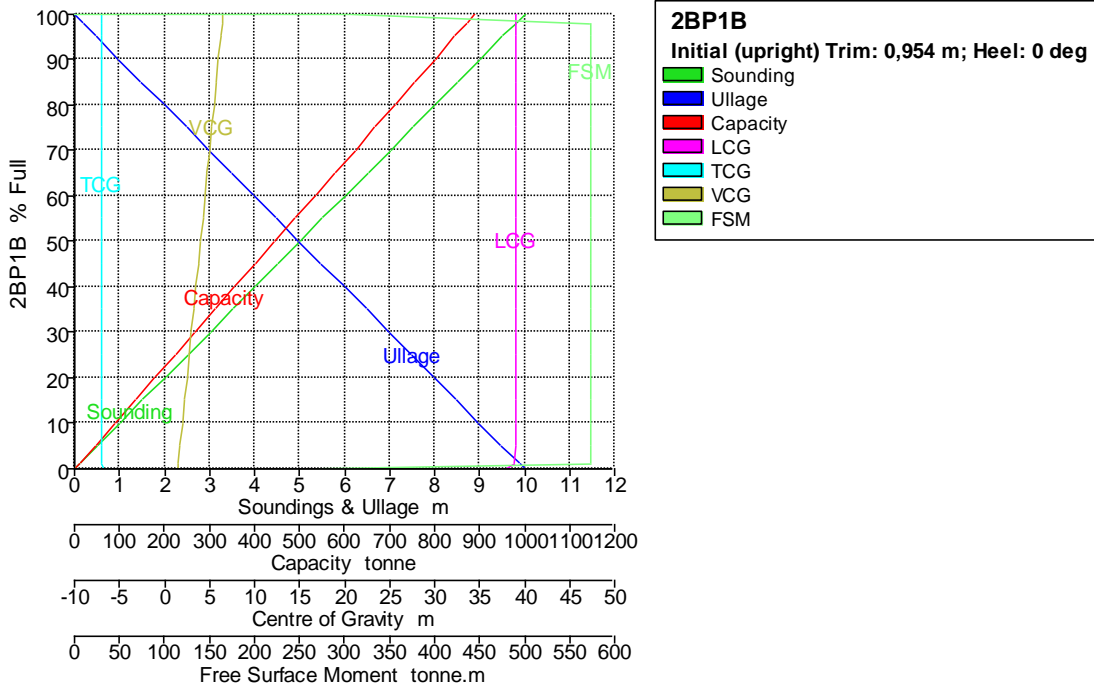
Fluid Type = MUD Specific gravity = 2,8
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2BP1E	10,000	0,000	100,000	317,124	887,947	39,000	6,905	6,500	0,000
	10,000	0,000	99,954	316,979	887,541	38,999	6,905	6,498	305,922
	9,800	0,200	98,000	310,782	870,188	38,999	6,905	6,400	574,223
	9,790	0,210	97,900	310,464	869,300	38,999	6,905	6,395	574,223
	9,500	0,500	94,999	301,263	843,537	38,999	6,905	6,250	574,223
	9,000	1,000	89,999	285,407	799,140	38,999	6,905	6,000	574,223
	8,500	1,500	84,999	269,551	754,743	38,999	6,905	5,750	574,223
	8,000	2,000	79,999	253,695	710,345	38,999	6,905	5,500	574,223
	7,500	2,500	74,999	237,839	665,948	38,999	6,905	5,250	574,223
	7,000	3,000	69,999	221,982	621,551	38,998	6,905	5,000	574,223
	6,500	3,500	64,999	206,126	577,153	38,998	6,905	4,750	574,223
	6,000	4,000	59,999	190,270	532,756	38,998	6,905	4,500	574,223
	5,500	4,500	54,999	174,414	488,358	38,998	6,905	4,250	574,223
	5,000	5,000	49,999	158,558	443,961	38,998	6,905	4,000	574,223
	4,500	5,500	44,999	142,701	399,564	38,998	6,905	3,750	574,223
	4,000	6,000	39,999	126,845	355,166	38,997	6,905	3,500	574,223
	3,500	6,500	34,999	110,989	310,769	38,997	6,905	3,250	574,223
	3,000	7,000	29,999	95,133	266,372	38,996	6,905	3,000	574,223
	2,500	7,500	24,999	79,277	221,974	38,996	6,905	2,750	574,223
	2,000	8,000	19,999	63,420	177,577	38,995	6,905	2,500	574,223
	1,500	8,500	14,999	47,564	133,180	38,993	6,905	2,250	574,223
	1,000	9,000	9,999	31,708	88,782	38,989	6,905	2,000	574,223
	0,500	9,500	4,999	15,852	44,385	38,978	6,905	1,750	574,223
	0,100	9,900	1,000	3,171	8,879	38,892	6,905	1,551	574,223
	0,000	10,000	0,044	0,140	0,393	37,795	6,873	1,522	268,301

Tank Calibrations - 2BP1B

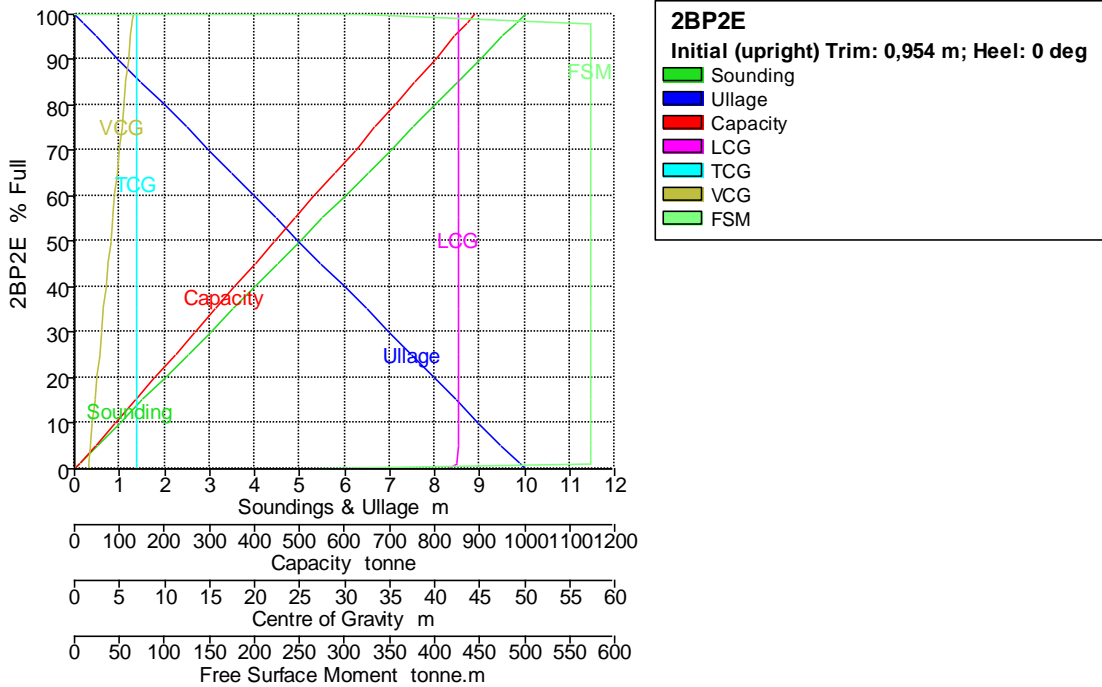
Fluid Type = MUD Specific gravity = 2,8
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2BP1B	10,000	0,000	100,000	317,124	887,947	39,000	-6,905	6,500	0,000
	10,000	0,000	99,954	316,979	887,541	38,999	-6,905	6,498	305,922
	9,800	0,200	98,000	310,782	870,188	38,999	-6,905	6,400	574,223
	9,790	0,210	97,900	310,464	869,300	38,999	-6,905	6,395	574,223
	9,500	0,500	94,999	301,263	843,537	38,999	-6,905	6,250	574,223
	9,000	1,000	89,999	285,407	799,140	38,999	-6,905	6,000	574,223
	8,500	1,500	84,999	269,551	754,743	38,999	-6,905	5,750	574,223
	8,000	2,000	79,999	253,695	710,345	38,999	-6,905	5,500	574,223
	7,500	2,500	74,999	237,839	665,948	38,999	-6,905	5,250	574,223
	7,000	3,000	69,999	221,982	621,551	38,998	-6,905	5,000	574,223
	6,500	3,500	64,999	206,126	577,153	38,998	-6,905	4,750	574,223
	6,000	4,000	59,999	190,270	532,756	38,998	-6,905	4,500	574,223
	5,500	4,500	54,999	174,414	488,358	38,998	-6,905	4,250	574,223
	5,000	5,000	49,999	158,558	443,961	38,998	-6,905	4,000	574,223
	4,500	5,500	44,999	142,701	399,564	38,998	-6,905	3,750	574,223
	4,000	6,000	39,999	126,845	355,166	38,997	-6,905	3,500	574,223
	3,500	6,500	34,999	110,989	310,769	38,997	-6,905	3,250	574,223
	3,000	7,000	29,999	95,133	266,372	38,996	-6,905	3,000	574,223
	2,500	7,500	24,999	79,277	221,974	38,996	-6,905	2,750	574,223
	2,000	8,000	19,999	63,420	177,577	38,995	-6,905	2,500	574,223
	1,500	8,500	14,999	47,564	133,180	38,993	-6,905	2,250	574,223
	1,000	9,000	9,999	31,708	88,782	38,989	-6,905	2,000	574,223
	0,500	9,500	4,999	15,852	44,385	38,978	-6,905	1,750	574,223
	0,100	9,900	1,000	3,171	8,879	38,892	-6,905	1,551	574,223
	0,000	10,000	0,044	0,140	0,393	37,795	-6,873	1,522	268,301

Tank Calibrations - 2BP2E

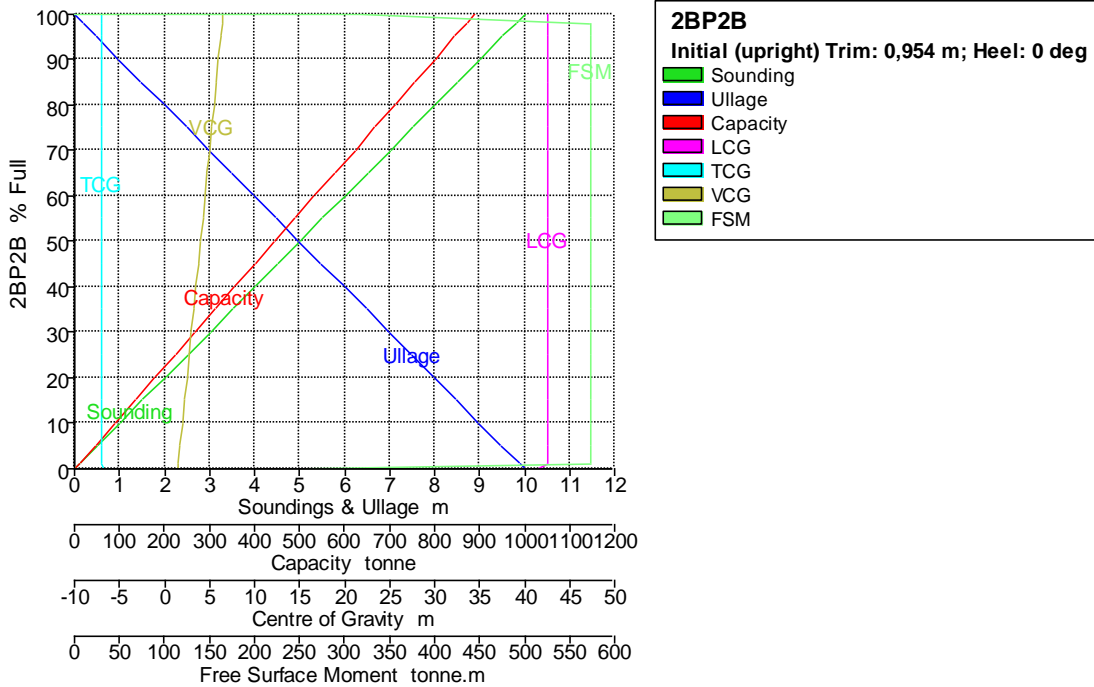
Fluid Type = MUD Specific gravity = 2,8
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2BP2E	10,000	0,000	100,000	317,124	887,947	42,600	6,905	6,500	0,000
	10,000	0,000	99,951	316,967	887,509	42,599	6,905	6,498	317,283
	9,801	0,199	98,000	310,782	870,188	42,599	6,905	6,400	574,223
	9,791	0,209	97,900	310,464	869,300	42,599	6,905	6,395	574,223
	9,500	0,500	94,991	301,241	843,474	42,599	6,905	6,250	574,223
	9,000	1,000	89,991	285,385	799,077	42,599	6,905	6,000	574,223
	8,500	1,500	84,991	269,528	754,679	42,599	6,905	5,750	574,223
	8,000	2,000	79,991	253,672	710,282	42,599	6,905	5,500	574,223
	7,500	2,500	74,991	237,816	665,885	42,599	6,905	5,250	574,223
	7,000	3,000	69,991	221,960	621,487	42,598	6,905	5,000	574,223
	6,500	3,500	64,991	206,104	577,090	42,598	6,905	4,750	574,223
	6,000	4,000	59,991	190,247	532,693	42,598	6,905	4,500	574,223
	5,500	4,500	54,991	174,391	488,295	42,598	6,905	4,250	574,223
	5,000	5,000	49,991	158,535	443,898	42,598	6,905	4,000	574,223
	4,500	5,500	44,991	142,679	399,500	42,598	6,905	3,750	574,223
	4,000	6,000	39,991	126,823	355,103	42,597	6,905	3,500	574,223
	3,500	6,500	34,991	110,966	310,706	42,597	6,905	3,250	574,223
	3,000	7,000	29,991	95,110	266,308	42,596	6,905	3,000	574,223
	2,500	7,500	24,991	79,254	221,911	42,596	6,905	2,750	574,223
	2,000	8,000	19,991	63,398	177,514	42,595	6,905	2,500	574,223
	1,500	8,500	14,991	47,542	133,116	42,593	6,905	2,250	574,223
	1,000	9,000	9,991	31,685	88,719	42,589	6,905	2,000	574,223
	0,500	9,500	4,991	15,829	44,322	42,578	6,905	1,750	574,223
	0,101	9,899	1,000	3,171	8,879	42,492	6,905	1,551	574,223
	0,000	10,000	0,041	0,129	0,363	41,372	6,871	1,523	256,940

Tank Calibrations - 2BP2B

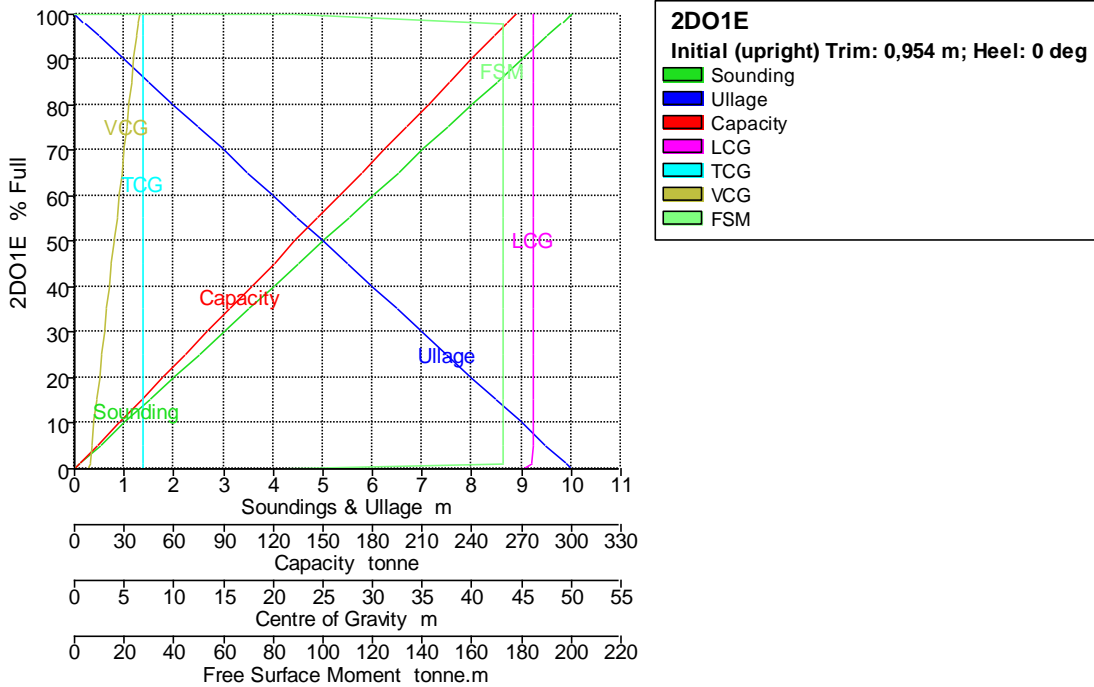
Fluid Type = MUD Specific gravity = 2,8
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2BP2B	10,000	0,000	100,000	317,124	887,947	42,600	-6,905	6,500	0,000
	10,000	0,000	99,951	316,967	887,509	42,599	-6,905	6,498	317,283
	9,801	0,199	98,000	310,782	870,188	42,599	-6,905	6,400	574,223
	9,791	0,209	97,900	310,464	869,300	42,599	-6,905	6,395	574,223
	9,500	0,500	94,991	301,241	843,474	42,599	-6,905	6,250	574,223
	9,000	1,000	89,991	285,385	799,077	42,599	-6,905	6,000	574,223
	8,500	1,500	84,991	269,528	754,679	42,599	-6,905	5,750	574,223
	8,000	2,000	79,991	253,672	710,282	42,599	-6,905	5,500	574,223
	7,500	2,500	74,991	237,816	665,885	42,599	-6,905	5,250	574,223
	7,000	3,000	69,991	221,960	621,487	42,598	-6,905	5,000	574,223
	6,500	3,500	64,991	206,104	577,090	42,598	-6,905	4,750	574,223
	6,000	4,000	59,991	190,247	532,693	42,598	-6,905	4,500	574,223
	5,500	4,500	54,991	174,391	488,295	42,598	-6,905	4,250	574,223
	5,000	5,000	49,991	158,535	443,898	42,598	-6,905	4,000	574,223
	4,500	5,500	44,991	142,679	399,500	42,598	-6,905	3,750	574,223
	4,000	6,000	39,991	126,823	355,103	42,597	-6,905	3,500	574,223
	3,500	6,500	34,991	110,966	310,706	42,597	-6,905	3,250	574,223
	3,000	7,000	29,991	95,110	266,308	42,596	-6,905	3,000	574,223
	2,500	7,500	24,991	79,254	221,911	42,596	-6,905	2,750	574,223
	2,000	8,000	19,991	63,398	177,514	42,595	-6,905	2,500	574,223
	1,500	8,500	14,991	47,542	133,116	42,593	-6,905	2,250	574,223
	1,000	9,000	9,991	31,685	88,719	42,589	-6,905	2,000	574,223
	0,500	9,500	4,991	15,829	44,322	42,578	-6,905	1,750	574,223
	0,101	9,899	1,000	3,171	8,879	42,492	-6,905	1,551	574,223
	0,000	10,000	0,041	0,129	0,363	41,372	-6,871	1,523	256,940

Tank Calibrations - 2DO1E

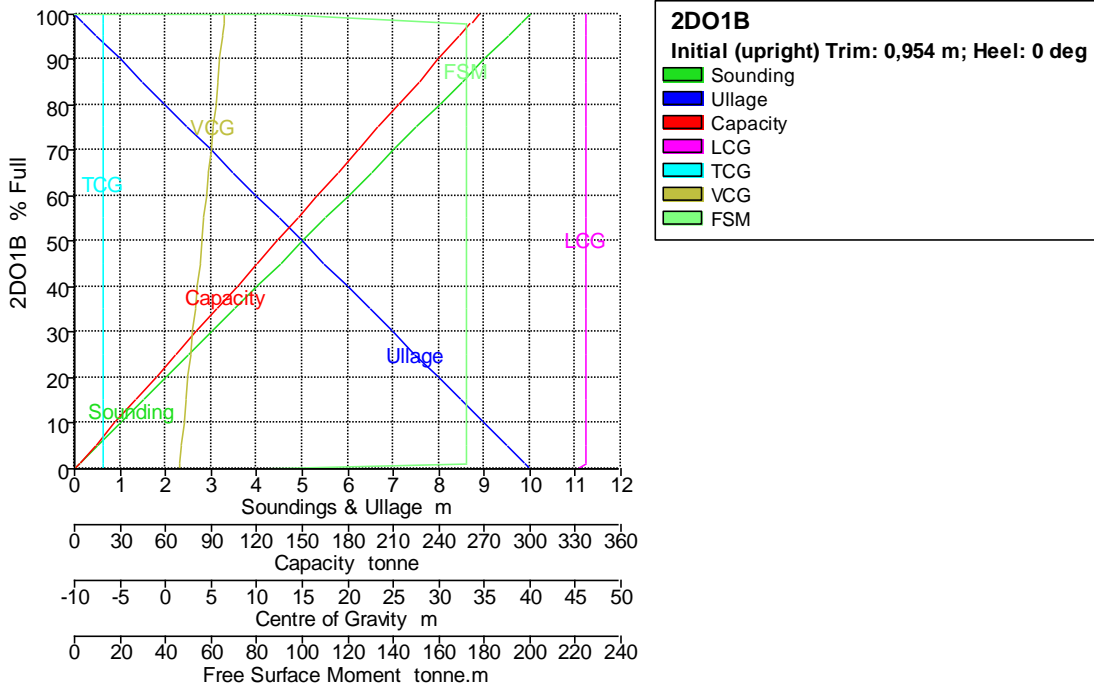
Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2D01E	10,000	0,000	100,000	317,124	266,384	46,200	6,905	6,500	0,000
	10,000	0,000	99,958	316,989	266,271	46,199	6,905	6,498	88,660
	9,799	0,201	98,000	310,782	261,056	46,199	6,905	6,400	172,267
	9,789	0,211	97,900	310,464	260,790	46,199	6,905	6,395	172,267
	9,500	0,500	95,005	301,284	253,079	46,199	6,905	6,250	172,267
	9,000	1,000	90,005	285,428	239,759	46,199	6,905	6,000	172,267
	8,500	1,500	85,005	269,572	226,440	46,199	6,905	5,750	172,267
	8,000	2,000	80,005	253,715	213,121	46,199	6,905	5,500	172,267
	7,500	2,500	75,005	237,859	199,802	46,199	6,905	5,250	172,267
	7,000	3,000	70,005	222,003	186,482	46,198	6,905	5,000	172,267
	6,500	3,500	65,005	206,147	173,163	46,198	6,905	4,750	172,267
	6,000	4,000	60,005	190,291	159,844	46,198	6,905	4,500	172,267
	5,500	4,500	55,005	174,434	146,525	46,198	6,905	4,250	172,267
	5,000	5,000	50,005	158,578	133,206	46,198	6,905	4,000	172,267
	4,500	5,500	45,005	142,722	119,886	46,198	6,905	3,750	172,267
	4,000	6,000	40,005	126,866	106,567	46,197	6,905	3,500	172,267
	3,500	6,500	35,005	111,010	93,248	46,197	6,905	3,250	172,267
	3,000	7,000	30,005	95,153	79,929	46,196	6,905	3,000	172,267
	2,500	7,500	25,005	79,297	66,610	46,196	6,905	2,750	172,267
	2,000	8,000	20,005	63,441	53,290	46,195	6,905	2,500	172,267
	1,500	8,500	15,005	47,585	39,971	46,193	6,905	2,250	172,267
	1,000	9,000	10,005	31,729	26,652	46,189	6,905	2,000	172,267
	0,500	9,500	5,005	15,872	13,333	46,178	6,905	1,750	172,267
	0,099	9,901	1,000	3,171	2,664	46,092	6,905	1,551	172,267
	0,000	10,000	0,048	0,151	0,127	45,017	6,876	1,521	83,607

Tank Calibrations - 2D01B

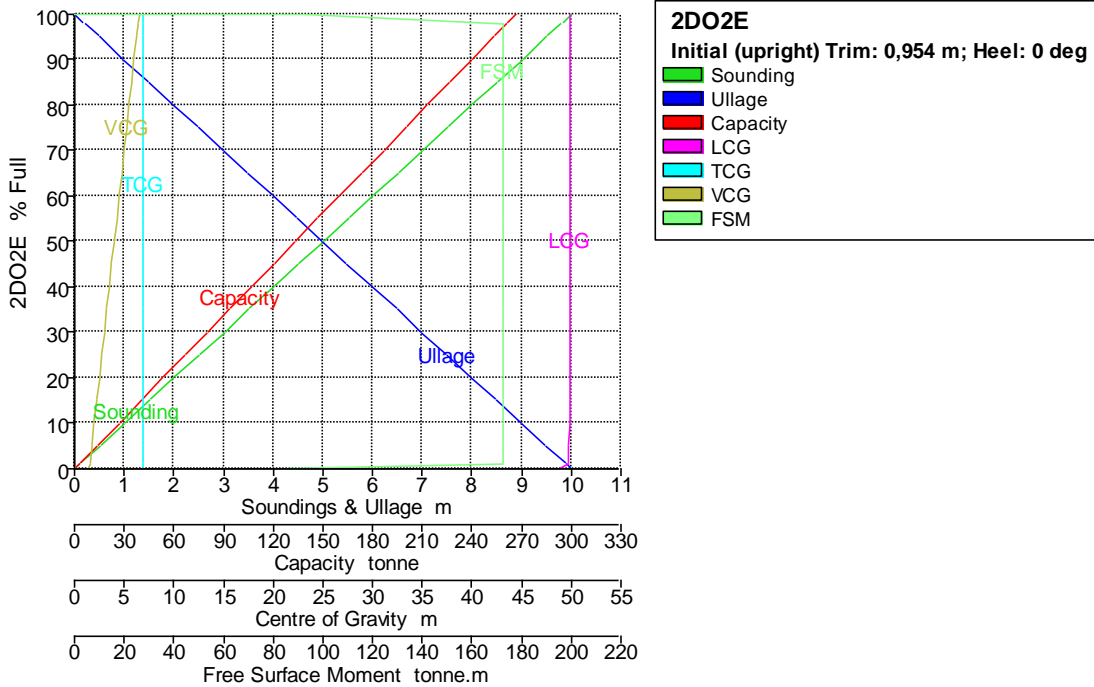
Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DO1B	10,000	0,000	100,000	317,124	266,384	46,200	-6,905	6,500	0,000
	10,000	0,000	99,958	316,989	266,271	46,199	-6,905	6,498	88,660
	9,799	0,201	98,000	310,782	261,056	46,199	-6,905	6,400	172,267
	9,789	0,211	97,900	310,464	260,790	46,199	-6,905	6,395	172,267
	9,500	0,500	95,005	301,284	253,079	46,199	-6,905	6,250	172,267
	9,000	1,000	90,005	285,428	239,759	46,199	-6,905	6,000	172,267
	8,500	1,500	85,005	269,572	226,440	46,199	-6,905	5,750	172,267
	8,000	2,000	80,005	253,715	213,121	46,199	-6,905	5,500	172,267
	7,500	2,500	75,005	237,859	199,802	46,199	-6,905	5,250	172,267
	7,000	3,000	70,005	222,003	186,482	46,198	-6,905	5,000	172,267
	6,500	3,500	65,005	206,147	173,163	46,198	-6,905	4,750	172,267
	6,000	4,000	60,005	190,291	159,844	46,198	-6,905	4,500	172,267
	5,500	4,500	55,005	174,434	146,525	46,198	-6,905	4,250	172,267
	5,000	5,000	50,005	158,578	133,206	46,198	-6,905	4,000	172,267
	4,500	5,500	45,005	142,722	119,886	46,198	-6,905	3,750	172,267
	4,000	6,000	40,005	126,866	106,567	46,197	-6,905	3,500	172,267
	3,500	6,500	35,005	111,010	93,248	46,197	-6,905	3,250	172,267
	3,000	7,000	30,005	95,153	79,929	46,196	-6,905	3,000	172,267
	2,500	7,500	25,005	79,297	66,610	46,196	-6,905	2,750	172,267
	2,000	8,000	20,005	63,441	53,290	46,195	-6,905	2,500	172,267
	1,500	8,500	15,005	47,585	39,971	46,193	-6,905	2,250	172,267
	1,000	9,000	10,005	31,729	26,652	46,189	-6,905	2,000	172,267
	0,500	9,500	5,005	15,872	13,333	46,178	-6,905	1,750	172,267
	0,099	9,901	1,000	3,171	2,664	46,092	-6,905	1,551	172,267
	0,000	10,000	0,048	0,151	0,127	45,017	-6,876	1,521	83,607

Tank Calibrations - 2DO2E

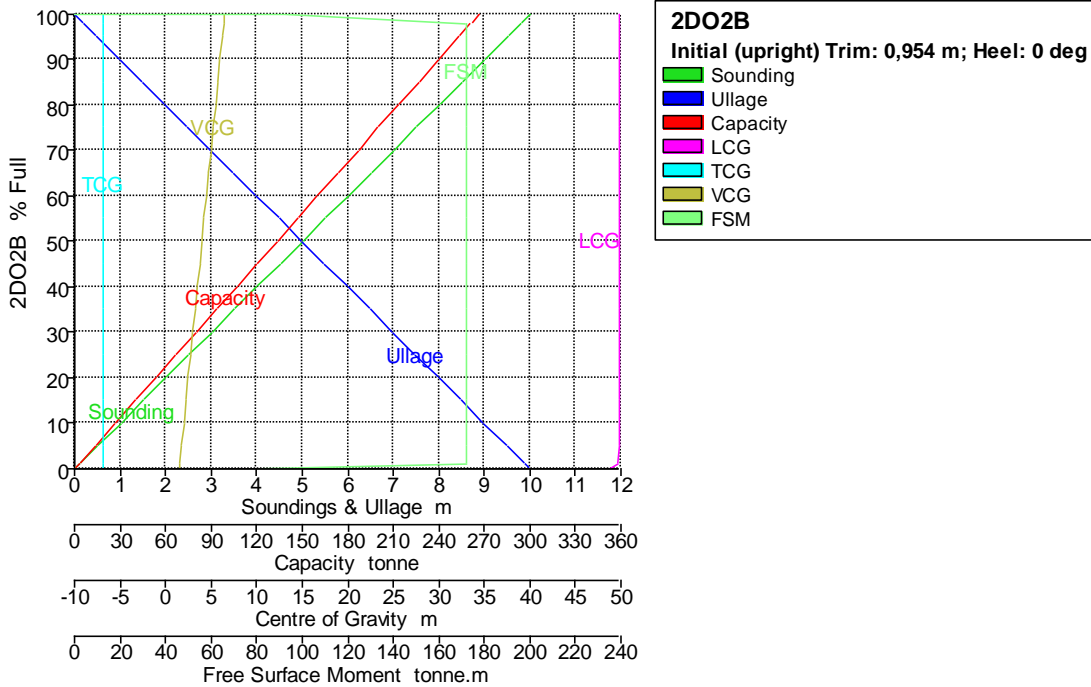
Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DO2E	10,000	0,000	100,000	317,124	266,384	49,800	6,905	6,500	0,000
	10,000	0,000	99,954	316,978	266,262	49,799	6,905	6,498	92,069
	9,800	0,200	98,000	310,782	261,056	49,799	6,905	6,400	172,267
	9,790	0,210	97,900	310,464	260,790	49,799	6,905	6,395	172,267
	9,500	0,500	94,998	301,261	253,060	49,799	6,905	6,250	172,267
	9,000	1,000	89,998	285,405	239,740	49,799	6,905	6,000	172,267
	8,500	1,500	84,998	269,549	226,421	49,799	6,905	5,750	172,267
	8,000	2,000	79,998	253,693	213,102	49,799	6,905	5,500	172,267
	7,500	2,500	74,998	237,837	199,783	49,799	6,905	5,250	172,267
	7,000	3,000	69,998	221,980	186,464	49,798	6,905	5,000	172,267
	6,500	3,500	64,998	206,124	173,144	49,798	6,905	4,750	172,267
	6,000	4,000	59,998	190,268	159,825	49,798	6,905	4,500	172,267
	5,500	4,500	54,998	174,412	146,506	49,798	6,905	4,250	172,267
	5,000	5,000	49,998	158,556	133,187	49,798	6,905	4,000	172,267
	4,500	5,500	44,998	142,699	119,867	49,798	6,905	3,750	172,267
	4,000	6,000	39,998	126,843	106,548	49,797	6,905	3,500	172,267
	3,500	6,500	34,998	110,987	93,229	49,797	6,905	3,250	172,267
	3,000	7,000	29,998	95,131	79,910	49,796	6,905	3,000	172,267
	2,500	7,500	24,998	79,275	66,591	49,796	6,905	2,750	172,267
	2,000	8,000	19,998	63,418	53,271	49,795	6,905	2,500	172,267
	1,500	8,500	14,998	47,562	39,952	49,793	6,905	2,250	172,267
	1,000	9,000	9,998	31,706	26,633	49,789	6,905	2,000	172,267
	0,500	9,500	4,998	15,850	13,314	49,778	6,905	1,750	172,267
	0,100	9,900	1,000	3,171	2,664	49,692	6,905	1,551	172,267
	0,000	10,000	0,044	0,140	0,117	48,593	6,873	1,522	80,198

Tank Calibrations - 2DO2B

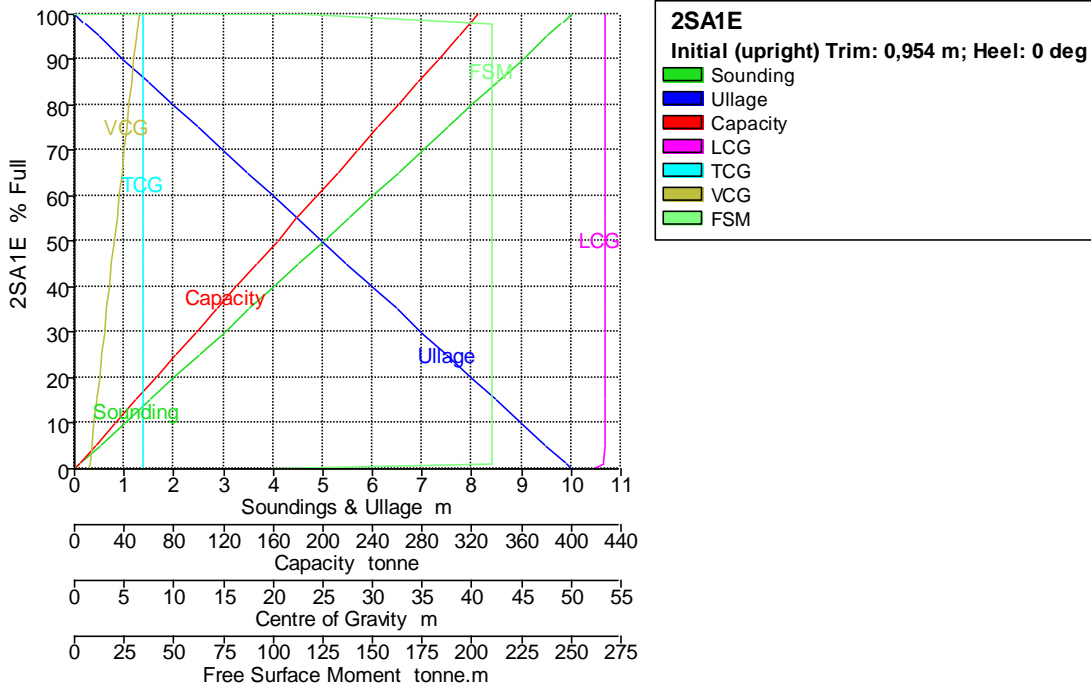
Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DO2B	10,000	0,000	100,000	317,124	266,384	49,800	-6,905	6,500	0,000
	10,000	0,000	99,954	316,978	266,262	49,799	-6,905	6,498	92,069
	9,800	0,200	98,000	310,782	261,056	49,799	-6,905	6,400	172,267
	9,790	0,210	97,900	310,464	260,790	49,799	-6,905	6,395	172,267
	9,500	0,500	94,998	301,261	253,060	49,799	-6,905	6,250	172,267
	9,000	1,000	89,998	285,405	239,740	49,799	-6,905	6,000	172,267
	8,500	1,500	84,998	269,549	226,421	49,799	-6,905	5,750	172,267
	8,000	2,000	79,998	253,693	213,102	49,799	-6,905	5,500	172,267
	7,500	2,500	74,998	237,837	199,783	49,799	-6,905	5,250	172,267
	7,000	3,000	69,998	221,980	186,464	49,798	-6,905	5,000	172,267
	6,500	3,500	64,998	206,124	173,144	49,798	-6,905	4,750	172,267
	6,000	4,000	59,998	190,268	159,825	49,798	-6,905	4,500	172,267
	5,500	4,500	54,998	174,412	146,506	49,798	-6,905	4,250	172,267
	5,000	5,000	49,998	158,556	133,187	49,798	-6,905	4,000	172,267
	4,500	5,500	44,998	142,699	119,867	49,798	-6,905	3,750	172,267
	4,000	6,000	39,998	126,843	106,548	49,797	-6,905	3,500	172,267
	3,500	6,500	34,998	110,987	93,229	49,797	-6,905	3,250	172,267
	3,000	7,000	29,998	95,131	79,910	49,796	-6,905	3,000	172,267
	2,500	7,500	24,998	79,275	66,591	49,796	-6,905	2,750	172,267
	2,000	8,000	19,998	63,418	53,271	49,795	-6,905	2,500	172,267
	1,500	8,500	14,998	47,562	39,952	49,793	-6,905	2,250	172,267
	1,000	9,000	9,998	31,706	26,633	49,789	-6,905	2,000	172,267
	0,500	9,500	4,998	15,850	13,314	49,778	-6,905	1,750	172,267
	0,100	9,900	1,000	3,171	2,664	49,692	-6,905	1,551	172,267
	0,000	10,000	0,044	0,140	0,117	48,593	-6,873	1,522	80,198

Tank Calibrations - 2SA1E

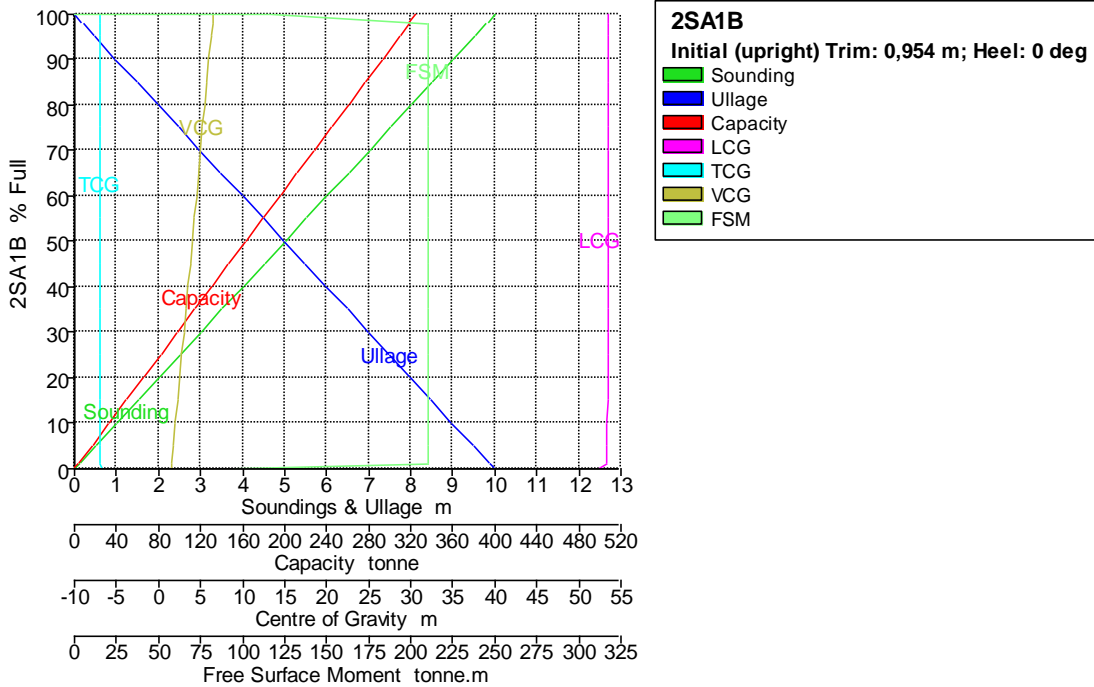
Fluid Type = BRINE Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2SA1E	10,000	0,000	100,000	317,124	325,052	53,400	6,905	6,500	0,000
	10,000	0,000	99,950	316,966	324,891	53,399	6,905	6,498	116,505
	9,801	0,199	98,000	310,782	318,551	53,399	6,905	6,400	210,207
	9,791	0,209	97,900	310,464	318,226	53,399	6,905	6,395	210,207
	9,500	0,500	94,991	301,239	308,770	53,399	6,905	6,250	210,207
	9,000	1,000	89,991	285,383	292,517	53,399	6,905	6,000	210,207
	8,500	1,500	84,991	269,526	276,265	53,399	6,905	5,750	210,207
	8,000	2,000	79,991	253,670	260,012	53,399	6,905	5,500	210,207
	7,500	2,500	74,991	237,814	243,759	53,399	6,905	5,250	210,207
	7,000	3,000	69,991	221,958	227,507	53,398	6,905	5,000	210,207
	6,500	3,500	64,991	206,102	211,254	53,398	6,905	4,750	210,207
	6,000	4,000	59,991	190,245	195,002	53,398	6,905	4,500	210,207
	5,500	4,500	54,991	174,389	178,749	53,398	6,905	4,250	210,207
	5,000	5,000	49,991	158,533	162,496	53,398	6,905	4,000	210,207
	4,500	5,500	44,991	142,677	146,244	53,398	6,905	3,750	210,207
	4,000	6,000	39,991	126,821	129,991	53,397	6,905	3,500	210,207
	3,500	6,500	34,991	110,964	113,738	53,397	6,905	3,250	210,207
	3,000	7,000	29,991	95,108	97,486	53,396	6,905	3,000	210,207
	2,500	7,500	24,991	79,252	81,233	53,396	6,905	2,750	210,207
	2,000	8,000	19,991	63,396	64,981	53,395	6,905	2,500	210,207
	1,500	8,500	14,991	47,540	48,728	53,393	6,905	2,250	210,207
	1,000	9,000	9,991	31,683	32,475	53,389	6,905	2,000	210,207
	0,500	9,500	4,991	15,827	16,223	53,378	6,905	1,750	210,207
	0,101	9,899	1,000	3,171	3,251	53,292	6,905	1,551	210,207
	0,000	10,000	0,041	0,129	0,132	52,170	6,871	1,523	93,702

Tank Calibrations - 2SA1B

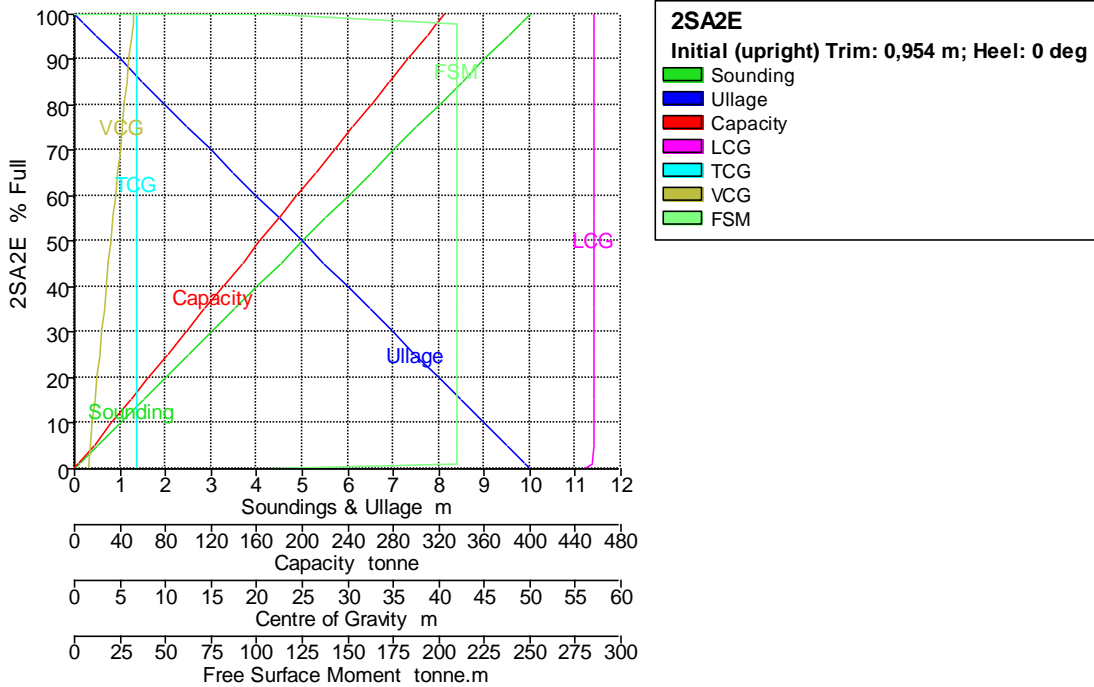
Fluid Type = BRINE Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2SA1B	10,000	0,000	100,000	317,124	325,052	53,400	-6,905	6,500	0,000
	10,000	0,000	99,950	316,966	324,891	53,399	-6,905	6,498	116,505
	9,801	0,199	98,000	310,782	318,551	53,399	-6,905	6,400	210,207
	9,791	0,209	97,900	310,464	318,226	53,399	-6,905	6,395	210,207
	9,500	0,500	94,991	301,239	308,770	53,399	-6,905	6,250	210,207
	9,000	1,000	89,991	285,383	292,517	53,399	-6,905	6,000	210,207
	8,500	1,500	84,991	269,526	276,265	53,399	-6,905	5,750	210,207
	8,000	2,000	79,991	253,670	260,012	53,399	-6,905	5,500	210,207
	7,500	2,500	74,991	237,814	243,759	53,399	-6,905	5,250	210,207
	7,000	3,000	69,991	221,958	227,507	53,398	-6,905	5,000	210,207
	6,500	3,500	64,991	206,102	211,254	53,398	-6,905	4,750	210,207
	6,000	4,000	59,991	190,245	195,002	53,398	-6,905	4,500	210,207
	5,500	4,500	54,991	174,389	178,749	53,398	-6,905	4,250	210,207
	5,000	5,000	49,991	158,533	162,496	53,398	-6,905	4,000	210,207
	4,500	5,500	44,991	142,677	146,244	53,398	-6,905	3,750	210,207
	4,000	6,000	39,991	126,821	129,991	53,397	-6,905	3,500	210,207
	3,500	6,500	34,991	110,964	113,738	53,397	-6,905	3,250	210,207
	3,000	7,000	29,991	95,108	97,486	53,396	-6,905	3,000	210,207
	2,500	7,500	24,991	79,252	81,233	53,396	-6,905	2,750	210,207
	2,000	8,000	19,991	63,396	64,981	53,395	-6,905	2,500	210,207
	1,500	8,500	14,991	47,540	48,728	53,393	-6,905	2,250	210,207
	1,000	9,000	9,991	31,683	32,475	53,389	-6,905	2,000	210,207
	0,500	9,500	4,991	15,827	16,223	53,378	-6,905	1,750	210,207
	0,101	9,899	1,000	3,171	3,251	53,292	-6,905	1,551	210,207
	0,000	10,000	0,041	0,129	0,132	52,170	-6,871	1,523	93,702

Tank Calibrations - 2SA2E

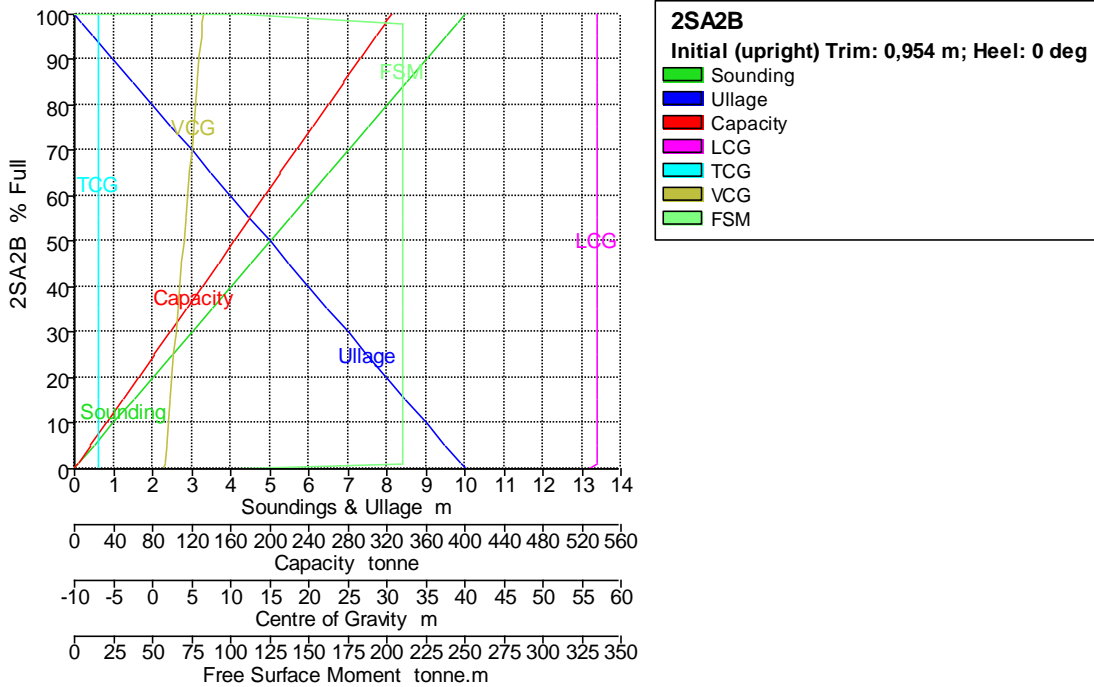
Fluid Type = BRINE Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2SA2E	10,000	0,000	100,000	317,124	325,052	57,000	6,905	6,500	0,000
	10,000	0,000	99,957	316,988	324,913	56,999	6,905	6,498	108,543
	9,800	0,200	98,000	310,782	318,551	56,999	6,905	6,400	210,207
	9,790	0,210	97,900	310,464	318,226	56,999	6,905	6,395	210,207
	9,500	0,500	95,004	301,282	308,814	56,999	6,905	6,250	210,207
	9,000	1,000	90,004	285,426	292,562	56,999	6,905	6,000	210,207
	8,500	1,500	85,004	269,570	276,309	56,999	6,905	5,750	210,207
	8,000	2,000	80,004	253,713	260,056	56,999	6,905	5,500	210,207
	7,500	2,500	75,004	237,857	243,804	56,999	6,905	5,250	210,207
	7,000	3,000	70,004	222,001	227,551	56,998	6,905	5,000	210,207
	6,500	3,500	65,004	206,145	211,298	56,998	6,905	4,750	210,207
	6,000	4,000	60,004	190,289	195,046	56,998	6,905	4,500	210,207
	5,500	4,500	55,004	174,432	178,793	56,998	6,905	4,250	210,207
	5,000	5,000	50,004	158,576	162,541	56,998	6,905	4,000	210,207
	4,500	5,500	45,004	142,720	146,288	56,998	6,905	3,750	210,207
	4,000	6,000	40,004	126,864	130,035	56,997	6,905	3,500	210,207
	3,500	6,500	35,004	111,008	113,783	56,997	6,905	3,250	210,207
	3,000	7,000	30,004	95,151	97,530	56,996	6,905	3,000	210,207
	2,500	7,500	25,004	79,295	81,278	56,996	6,905	2,750	210,207
	2,000	8,000	20,004	63,439	65,025	56,995	6,905	2,500	210,207
	1,500	8,500	15,004	47,583	48,772	56,993	6,905	2,250	210,207
	1,000	9,000	10,004	31,727	32,520	56,989	6,905	2,000	210,207
	0,500	9,500	5,004	15,870	16,267	56,978	6,905	1,750	210,207
	0,100	9,900	1,000	3,171	3,251	56,892	6,905	1,551	210,207
	0,000	10,000	0,047	0,150	0,154	55,815	6,875	1,521	101,664

Tank Calibrations - 2SA2B

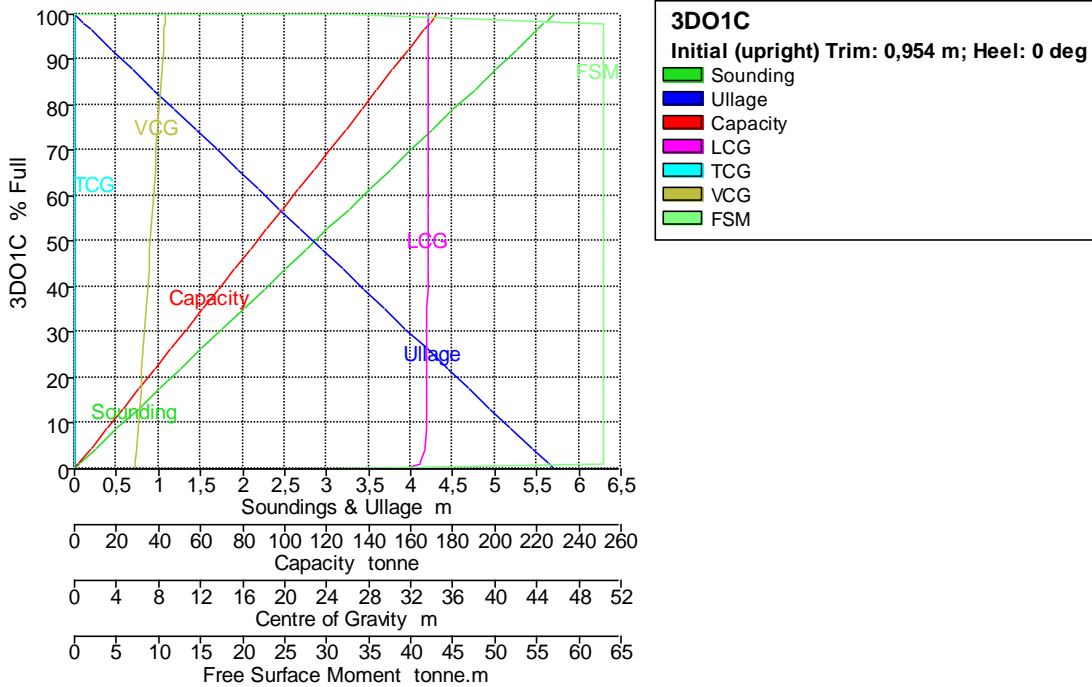
Fluid Type = BRINE Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2SA2B	10,000	0,000	100,000	317,124	325,052	57,000	-6,905	6,500	0,000
	10,000	0,000	99,957	316,988	324,913	56,999	-6,905	6,498	108,543
	9,800	0,200	98,000	310,782	318,551	56,999	-6,905	6,400	210,207
	9,790	0,210	97,900	310,464	318,226	56,999	-6,905	6,395	210,207
	9,500	0,500	95,004	301,282	308,814	56,999	-6,905	6,250	210,207
	9,000	1,000	90,004	285,426	292,562	56,999	-6,905	6,000	210,207
	8,500	1,500	85,004	269,570	276,309	56,999	-6,905	5,750	210,207
	8,000	2,000	80,004	253,713	260,056	56,999	-6,905	5,500	210,207
	7,500	2,500	75,004	237,857	243,804	56,999	-6,905	5,250	210,207
	7,000	3,000	70,004	222,001	227,551	56,998	-6,905	5,000	210,207
	6,500	3,500	65,004	206,145	211,298	56,998	-6,905	4,750	210,207
	6,000	4,000	60,004	190,289	195,046	56,998	-6,905	4,500	210,207
	5,500	4,500	55,004	174,432	178,793	56,998	-6,905	4,250	210,207
	5,000	5,000	50,004	158,576	162,541	56,998	-6,905	4,000	210,207
	4,500	5,500	45,004	142,720	146,288	56,998	-6,905	3,750	210,207
	4,000	6,000	40,004	126,864	130,035	56,997	-6,905	3,500	210,207
	3,500	6,500	35,004	111,008	113,783	56,997	-6,905	3,250	210,207
	3,000	7,000	30,004	95,151	97,530	56,996	-6,905	3,000	210,207
	2,500	7,500	25,004	79,295	81,278	56,996	-6,905	2,750	210,207
	2,000	8,000	20,004	63,439	65,025	56,995	-6,905	2,500	210,207
	1,500	8,500	15,004	47,583	48,772	56,993	-6,905	2,250	210,207
	1,000	9,000	10,004	31,727	32,520	56,989	-6,905	2,000	210,207
	0,500	9,500	5,004	15,870	16,267	56,978	-6,905	1,750	210,207
	0,100	9,900	1,000	3,171	3,251	56,892	-6,905	1,551	210,207
	0,000	10,000	0,047	0,150	0,154	55,815	-6,875	1,521	101,664

Tank Calibrations - 3DO1C

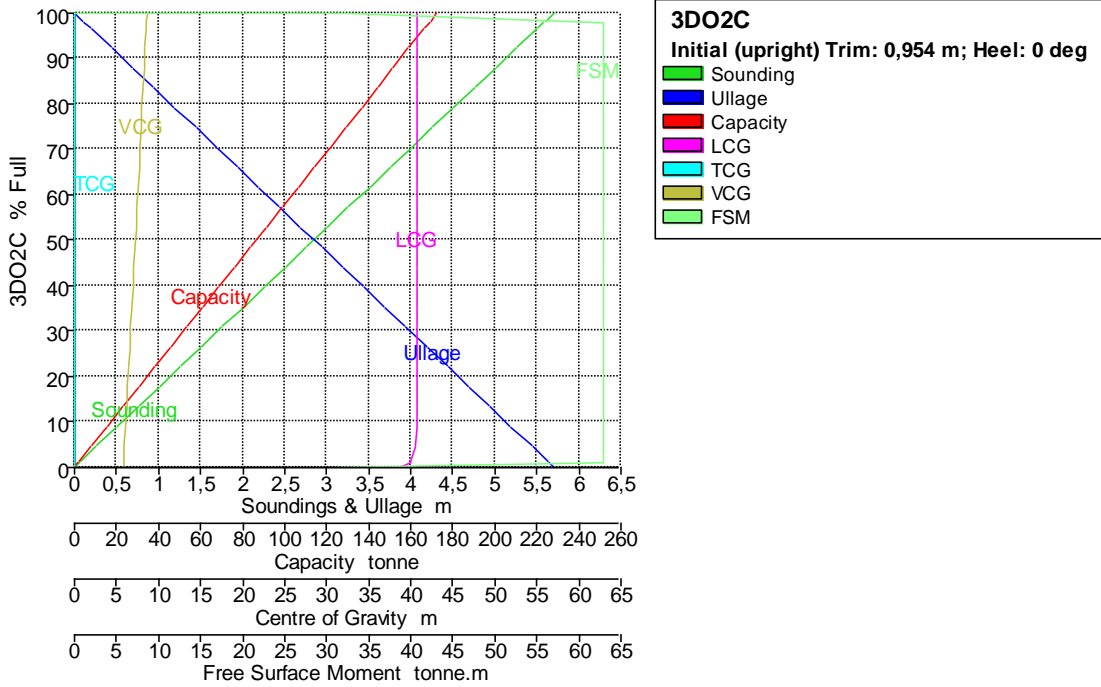
Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3DO1C	5,700	0,000	100,000	205,200	172,368	33,600	0,000	8,650	0,000
	5,700	0,000	99,841	204,874	172,094	33,596	0,000	8,645	32,507
	5,586	0,114	98,000	201,096	168,921	33,592	0,000	8,593	63,003
	5,580	0,120	97,900	200,891	168,748	33,592	0,000	8,590	63,003
	5,500	0,200	96,489	197,996	166,317	33,592	0,000	8,550	63,003
	5,250	0,450	92,103	188,996	158,757	33,592	0,000	8,425	63,003
	5,000	0,700	87,717	179,996	151,197	33,591	0,000	8,300	63,003
	4,750	0,950	83,331	170,996	143,637	33,591	0,000	8,175	63,003
	4,500	1,200	78,945	161,996	136,077	33,590	0,000	8,050	63,003
	4,250	1,450	74,559	152,996	128,517	33,590	0,000	7,925	63,003
	4,000	1,700	70,173	143,996	120,957	33,589	0,000	7,800	63,003
	3,750	1,950	65,788	134,996	113,397	33,588	0,000	7,675	63,003
	3,500	2,200	61,402	125,996	105,837	33,588	0,000	7,550	63,003
	3,250	2,450	57,016	116,996	98,277	33,587	0,000	7,425	63,003
	3,000	2,700	52,630	107,996	90,717	33,586	0,000	7,300	63,003
	2,750	2,950	48,244	98,996	83,157	33,584	0,000	7,175	63,003
	2,500	3,200	43,858	89,996	75,597	33,583	0,000	7,050	63,003
	2,250	3,450	39,472	80,996	68,037	33,581	0,000	6,925	63,003
	2,000	3,700	35,086	71,996	60,477	33,578	0,000	6,800	63,003
	1,750	3,950	30,700	62,996	52,917	33,575	0,000	6,675	63,003
	1,500	4,200	26,314	53,996	45,357	33,571	0,000	6,550	63,003
	1,250	4,450	21,928	44,996	37,797	33,565	0,000	6,425	63,003
	1,000	4,700	17,542	35,996	30,237	33,557	0,000	6,300	63,003
	0,750	4,950	13,156	26,996	22,677	33,542	0,000	6,175	63,003
	0,500	5,200	8,770	17,996	15,117	33,514	0,000	6,050	63,003
	0,250	5,450	4,384	8,996	7,557	33,427	0,000	5,926	63,003
	0,057	5,643	1,000	2,052	1,724	32,842	0,000	5,832	63,003
	0,000	5,700	0,157	0,322	0,270	31,196	0,000	5,811	30,496

Tank Calibrations - 3DO2C

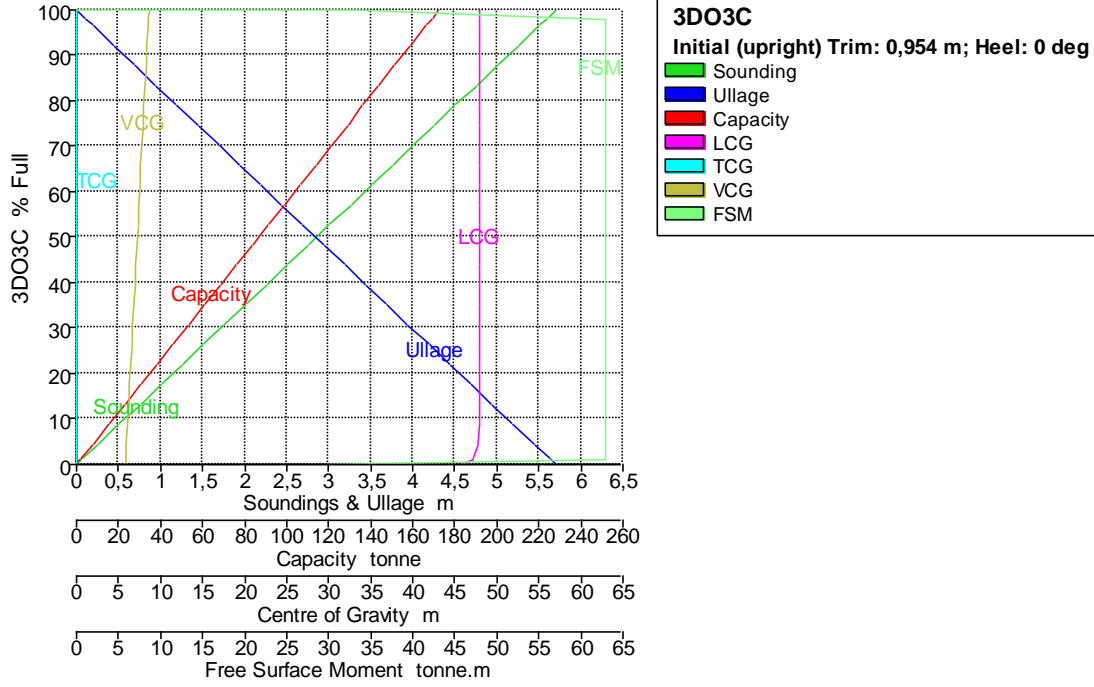
Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3DO2C	5,700	0,000	100,000	205,200	172,368	40,800	0,000	8,650	0,000
	5,700	0,000	99,847	204,886	172,104	40,796	0,000	8,646	31,937
	5,585	0,115	98,000	201,096	168,921	40,792	0,000	8,593	63,003
	5,580	0,120	97,900	200,891	168,748	40,792	0,000	8,590	63,003
	5,500	0,200	96,501	198,019	166,336	40,792	0,000	8,550	63,003
	5,250	0,450	92,115	189,019	158,776	40,792	0,000	8,425	63,003
	5,000	0,700	87,729	180,019	151,216	40,791	0,000	8,300	63,003
	4,750	0,950	83,343	171,019	143,656	40,791	0,000	8,175	63,003
	4,500	1,200	78,957	162,019	136,096	40,790	0,000	8,050	63,003
	4,250	1,450	74,571	153,019	128,536	40,790	0,000	7,925	63,003
	4,000	1,700	70,185	144,019	120,976	40,789	0,000	7,800	63,003
	3,750	1,950	65,799	135,019	113,416	40,788	0,000	7,675	63,003
	3,500	2,200	61,413	126,019	105,856	40,788	0,000	7,550	63,003
	3,250	2,450	57,027	117,019	98,296	40,787	0,000	7,425	63,003
	3,000	2,700	52,641	108,019	90,736	40,786	0,000	7,300	63,003
	2,750	2,950	48,255	99,019	83,176	40,784	0,000	7,175	63,003
	2,500	3,200	43,869	90,019	75,616	40,783	0,000	7,050	63,003
	2,250	3,450	39,483	81,019	68,056	40,781	0,000	6,925	63,003
	2,000	3,700	35,097	72,019	60,496	40,778	0,000	6,800	63,003
	1,750	3,950	30,711	63,019	52,936	40,775	0,000	6,675	63,003
	1,500	4,200	26,325	54,019	45,376	40,771	0,000	6,550	63,003
	1,250	4,450	21,939	45,019	37,816	40,765	0,000	6,425	63,003
	1,000	4,700	17,553	36,019	30,256	40,757	0,000	6,300	63,003
	0,750	4,950	13,167	27,019	22,696	40,742	0,000	6,176	63,003
	0,500	5,200	8,781	18,019	15,136	40,714	0,000	6,051	63,003
	0,250	5,450	4,395	9,019	7,576	40,628	0,000	5,926	63,003
	0,056	5,644	1,000	2,052	1,724	40,042	0,000	5,832	63,003
	0,000	5,700	0,163	0,334	0,280	38,418	0,000	5,811	31,066

Tank Calibrations - 3DO3C

Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3DO3C	5,700	0,000	100,000	205,200	172,368	48,000	0,000	8,650	0,000
	5,700	0,000	99,834	204,860	172,082	47,996	0,000	8,645	33,183
	5,587	0,113	98,000	201,096	168,921	47,992	0,000	8,593	63,003
	5,581	0,119	97,900	200,891	168,748	47,992	0,000	8,590	63,003
	5,500	0,200	96,476	197,968	166,293	47,992	0,000	8,550	63,003
	5,250	0,450	92,090	188,968	158,733	47,992	0,000	8,425	63,003
	5,000	0,700	87,704	179,968	151,173	47,991	0,000	8,300	63,003
	4,750	0,950	83,318	170,968	143,613	47,991	0,000	8,175	63,003
	4,500	1,200	78,932	161,968	136,053	47,990	0,000	8,050	63,003
	4,250	1,450	74,546	152,968	128,493	47,990	0,000	7,925	63,003
	4,000	1,700	70,160	143,968	120,933	47,989	0,000	7,800	63,003
	3,750	1,950	65,774	134,968	113,373	47,988	0,000	7,675	63,003
	3,500	2,200	61,388	125,968	105,813	47,988	0,000	7,550	63,003
	3,250	2,450	57,002	116,968	98,253	47,987	0,000	7,425	63,003
	3,000	2,700	52,616	107,968	90,693	47,986	0,000	7,300	63,003
	2,750	2,950	48,230	98,968	83,133	47,984	0,000	7,175	63,003
	2,500	3,200	43,844	89,968	75,573	47,983	0,000	7,050	63,003
	2,250	3,450	39,458	80,968	68,013	47,981	0,000	6,925	63,003
	2,000	3,700	35,072	71,968	60,453	47,978	0,000	6,800	63,003
	1,750	3,950	30,686	62,968	52,893	47,975	0,000	6,675	63,003
	1,500	4,200	26,300	53,968	45,333	47,971	0,000	6,550	63,003
	1,250	4,450	21,914	44,968	37,773	47,965	0,000	6,425	63,003
	1,000	4,700	17,528	35,968	30,213	47,957	0,000	6,300	63,003
	0,750	4,950	13,142	26,968	22,653	47,942	0,000	6,175	63,003
	0,500	5,200	8,756	17,968	15,093	47,913	0,000	6,050	63,003
	0,250	5,450	4,370	8,968	7,533	47,827	0,000	5,925	63,003

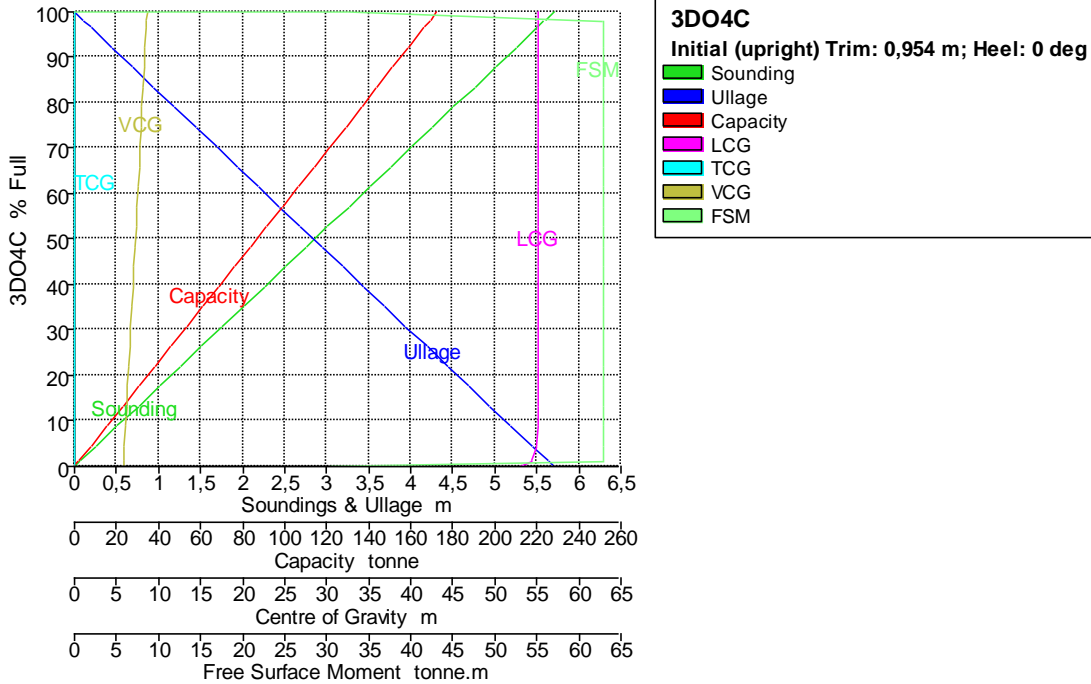
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,058	5,642	1,000	2,052	1,724	47,242	0,000	5,832	63,003
	0,000	5,700	0,150	0,308	0,259	45,571	0,000	5,811	29,820

Tank Calibrations - 3DO4C

Fluid Type = Diesel OIL Specific gravity = 0,84

Permeability = 100 %

Trim = 0,954 m (+ve by stern); Heel = 0 deg

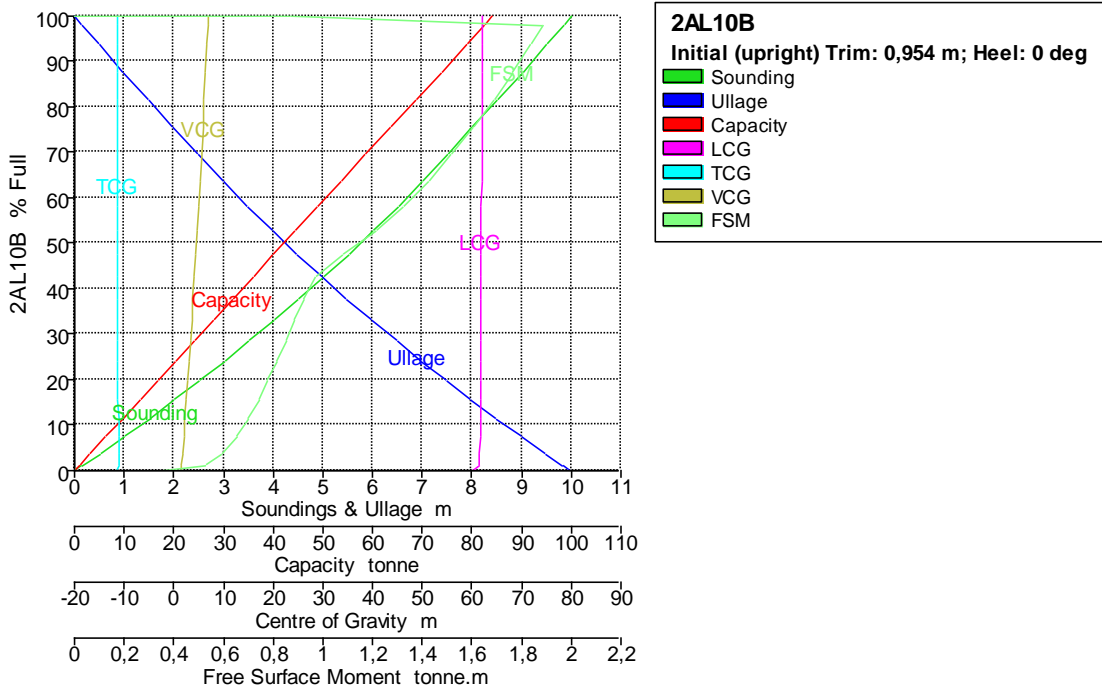


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3DO4C	5,700	0,000	100,000	205,200	172,368	55,200	0,000	8,650	0,000
	5,700	0,000	99,840	204,872	172,092	55,196	0,000	8,645	32,614
	5,586	0,114	98,000	201,096	168,921	55,192	0,000	8,593	63,003
	5,581	0,119	97,900	200,891	168,748	55,192	0,000	8,590	63,003
	5,500	0,200	96,487	197,992	166,313	55,192	0,000	8,550	63,003
	5,250	0,450	92,101	188,992	158,753	55,192	0,000	8,425	63,003
	5,000	0,700	87,715	179,992	151,193	55,191	0,000	8,300	63,003
	4,750	0,950	83,329	170,992	143,633	55,191	0,000	8,175	63,003
	4,500	1,200	78,943	161,992	136,073	55,190	0,000	8,050	63,003
	4,250	1,450	74,557	152,992	128,513	55,190	0,000	7,925	63,003
	4,000	1,700	70,171	143,992	120,953	55,189	0,000	7,800	63,003
	3,750	1,950	65,785	134,992	113,393	55,188	0,000	7,675	63,003
	3,500	2,200	61,399	125,992	105,833	55,188	0,000	7,550	63,003
	3,250	2,450	57,013	116,992	98,273	55,187	0,000	7,425	63,003
	3,000	2,700	52,627	107,992	90,713	55,186	0,000	7,300	63,003
	2,750	2,950	48,242	98,992	83,153	55,184	0,000	7,175	63,003
	2,500	3,200	43,856	89,992	75,593	55,183	0,000	7,050	63,003
	2,250	3,450	39,470	80,992	68,033	55,181	0,000	6,925	63,003
	2,000	3,700	35,084	71,992	60,473	55,178	0,000	6,800	63,003
	1,750	3,950	30,698	62,992	52,913	55,175	0,000	6,675	63,003

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	1,500	4,200	26,312	53,992	45,353	55,171	0,000	6,550	63,003
	1,250	4,450	21,926	44,992	37,793	55,165	0,000	6,425	63,003
	1,000	4,700	17,540	35,992	30,233	55,157	0,000	6,300	63,003
	0,750	4,950	13,154	26,992	22,673	55,142	0,000	6,175	63,003
	0,500	5,200	8,768	17,992	15,113	55,114	0,000	6,050	63,003
	0,250	5,450	4,382	8,992	7,553	55,027	0,000	5,926	63,003
	0,057	5,643	1,000	2,052	1,724	54,442	0,000	5,832	63,003
	0,000	5,700	0,156	0,320	0,269	52,792	0,000	5,811	30,390

Tank Calibrations - 2AL10B

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg

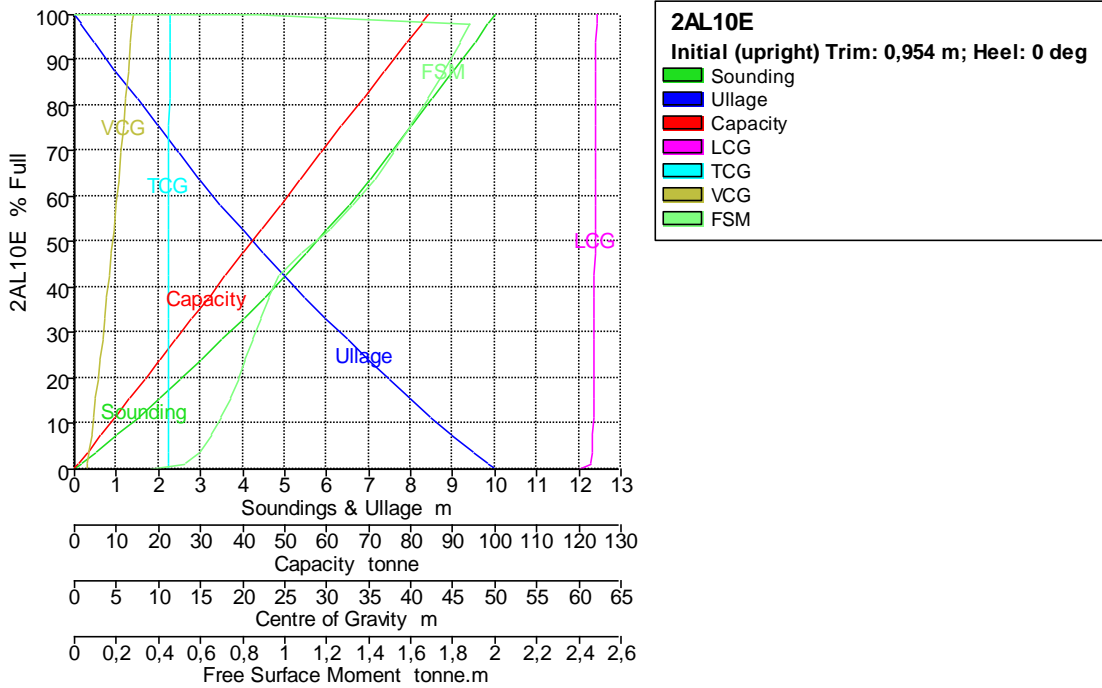


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL10B	10,000	0,000	100,000	82,201	84,256	62,076	-11,305	6,996	0,000
	10,000	0,000	99,893	82,114	84,166	62,073	-11,304	6,991	0,875
	9,841	0,159	98,000	80,557	82,571	62,065	-11,302	6,906	1,884
	9,834	0,166	97,900	80,475	82,487	62,065	-11,302	6,901	1,883
	9,500	0,500	93,691	77,015	78,941	62,054	-11,297	6,709	1,836
	9,000	1,000	87,457	71,891	73,688	62,036	-11,288	6,421	1,762
	8,500	1,500	81,321	66,847	68,518	62,018	-11,280	6,132	1,684
	8,000	2,000	75,292	61,891	63,439	61,998	-11,271	5,842	1,602
	7,500	2,500	69,384	57,034	58,460	61,976	-11,262	5,552	1,516
	7,000	3,000	63,611	52,289	53,596	61,954	-11,252	5,261	1,423
	6,500	3,500	57,993	47,671	48,863	61,930	-11,243	4,971	1,322
	6,000	4,000	52,560	43,205	44,286	61,907	-11,234	4,684	1,210
	5,500	4,500	47,361	38,931	39,904	61,884	-11,226	4,401	1,078
	5,000	5,000	42,455	34,898	35,771	61,865	-11,221	4,129	0,967

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	4,500	5,500	37,692	30,984	31,758	61,846	-11,215	3,860	0,926
	4,000	6,000	33,034	27,154	27,833	61,827	-11,210	3,593	0,887
	3,500	6,500	28,479	23,410	23,995	61,805	-11,204	3,327	0,850
	3,000	7,000	24,029	19,752	20,246	61,783	-11,199	3,063	0,814
	2,500	7,500	19,685	16,182	16,586	61,758	-11,193	2,799	0,778
	2,000	8,000	15,454	12,703	13,021	61,729	-11,186	2,537	0,741
	1,500	8,500	11,344	9,325	9,558	61,694	-11,179	2,276	0,701
	1,000	9,000	7,373	6,061	6,213	61,648	-11,171	2,016	0,654
	0,500	9,500	3,582	2,944	3,018	61,568	-11,163	1,758	0,591
	0,139	9,861	1,000	0,822	0,843	61,356	-11,163	1,575	0,525
	0,000	10,000	0,088	0,072	0,074	59,943	-11,239	1,515	0,354

Tank Calibrations - 2AL10E

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg

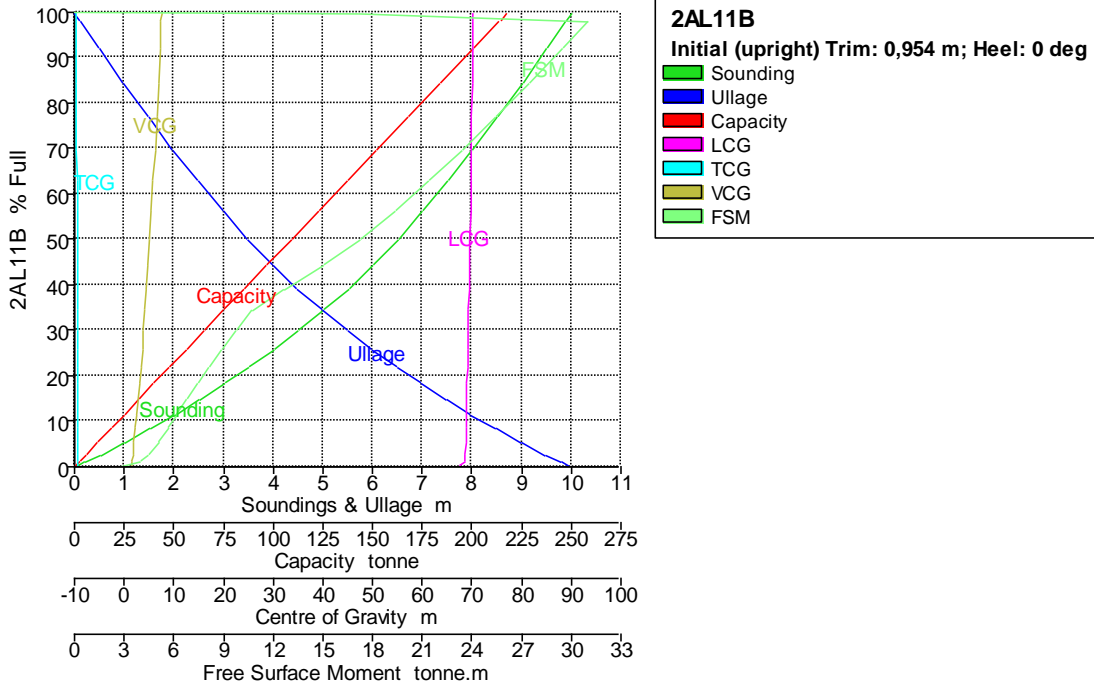


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL10E	10,000	0,000	100,000	82,201	84,256	62,076	11,305	6,996	0,000
	10,000	0,000	99,893	82,114	84,166	62,073	11,304	6,991	0,875
	9,841	0,159	98,000	80,557	82,571	62,065	11,302	6,906	1,884
	9,834	0,166	97,900	80,475	82,487	62,065	11,302	6,901	1,883
	9,500	0,500	93,691	77,015	78,941	62,054	11,297	6,709	1,836
	9,000	1,000	87,457	71,891	73,688	62,036	11,288	6,421	1,762
	8,500	1,500	81,321	66,847	68,518	62,018	11,280	6,132	1,684
	8,000	2,000	75,292	61,891	63,439	61,998	11,271	5,842	1,602
	7,500	2,500	69,384	57,034	58,460	61,976	11,262	5,552	1,516
	7,000	3,000	63,611	52,289	53,596	61,954	11,252	5,261	1,423
	6,500	3,500	57,993	47,671	48,863	61,930	11,243	4,971	1,322

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	6,000	4,000	52,560	43,205	44,286	61,907	11,234	4,684	1,210
	5,500	4,500	47,361	38,931	39,904	61,884	11,226	4,401	1,078
	5,000	5,000	42,455	34,898	35,771	61,865	11,221	4,129	0,967
	4,500	5,500	37,692	30,984	31,758	61,846	11,215	3,860	0,926
	4,000	6,000	33,034	27,154	27,833	61,827	11,210	3,593	0,887
	3,500	6,500	28,479	23,410	23,995	61,805	11,204	3,327	0,850
	3,000	7,000	24,029	19,752	20,246	61,783	11,199	3,063	0,814
	2,500	7,500	19,685	16,182	16,586	61,758	11,193	2,799	0,778
	2,000	8,000	15,454	12,703	13,021	61,729	11,186	2,537	0,741
	1,500	8,500	11,344	9,325	9,558	61,694	11,179	2,276	0,701
	1,000	9,000	7,373	6,061	6,213	61,648	11,171	2,016	0,654
	0,500	9,500	3,582	2,944	3,018	61,568	11,163	1,758	0,591
	0,139	9,861	1,000	0,822	0,843	61,356	11,163	1,575	0,525
	0,000	10,000	0,088	0,072	0,074	59,943	11,239	1,515	0,354

Tank Calibrations - 2AL11B

Fluid Type = Agua Lastre Specific gravity = 1,025
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL11B	10,000	0,000	100,000	212,833	218,153	70,249	-9,657	7,517	0,000
	10,000	0,000	99,668	212,126	217,429	70,235	-9,657	7,504	17,243
	9,889	0,111	98,000	208,576	213,790	70,217	-9,651	7,437	31,051
	9,882	0,118	97,900	208,363	213,572	70,216	-9,651	7,433	31,026
	9,500	0,500	91,857	195,502	200,390	70,163	-9,629	7,187	29,479
	9,000	1,000	84,163	179,125	183,603	70,088	-9,600	6,862	27,456
	8,500	1,500	76,717	163,279	167,361	70,007	-9,571	6,534	25,431
	8,000	2,000	69,543	148,010	151,710	69,918	-9,541	6,204	23,404

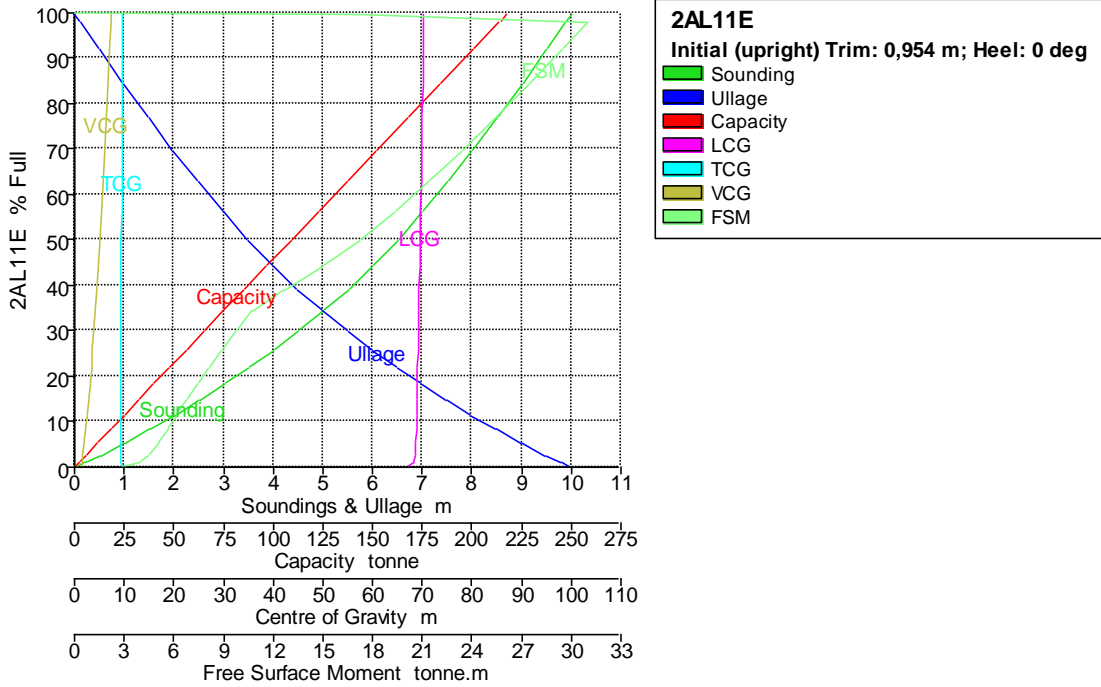
Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	7,500	2,500	62,665	133,372	136,706	69,823	-9,512	5,870	21,368
	7,000	3,000	56,115	119,431	122,417	69,720	-9,483	5,535	19,313
	6,500	3,500	49,933	106,274	108,931	69,612	-9,456	5,200	17,215
	6,000	4,000	44,173	94,014	96,365	69,502	-9,431	4,868	15,022
	5,500	4,500	38,911	82,816	84,886	69,398	-9,412	4,545	12,613
	5,000	5,000	34,215	72,820	74,640	69,312	-9,398	4,243	10,646
	4,500	5,500	29,841	63,511	65,099	69,232	-9,387	3,948	9,703
	4,000	6,000	25,723	54,747	56,116	69,158	-9,376	3,659	8,849
	3,500	6,500	21,839	46,480	47,642	69,089	-9,364	3,376	8,086
	3,000	7,000	18,167	38,666	39,632	69,023	-9,353	3,097	7,396
	2,500	7,500	14,690	31,266	32,048	68,959	-9,342	2,822	6,774
	2,000	8,000	11,395	24,251	24,858	68,894	-9,330	2,552	6,196
	1,500	8,500	8,270	17,602	18,042	68,825	-9,318	2,285	5,644
	1,000	9,000	5,318	11,319	11,602	68,742	-9,306	2,021	5,085
	0,500	9,500	2,557	5,443	5,579	68,620	-9,295	1,760	4,446
	0,197	9,803	1,000	2,128	2,182	68,460	-9,297	1,606	3,966
	0,000	10,000	0,069	0,147	0,151	67,140	-9,475	1,515	2,701

Tank Calibrations - 2AL11E

Fluid Type = Agua Lastre Specific gravity = 1,025

Permeability = 100 %

Trim = 0,954 m (+ve by stern); Heel = 0 deg

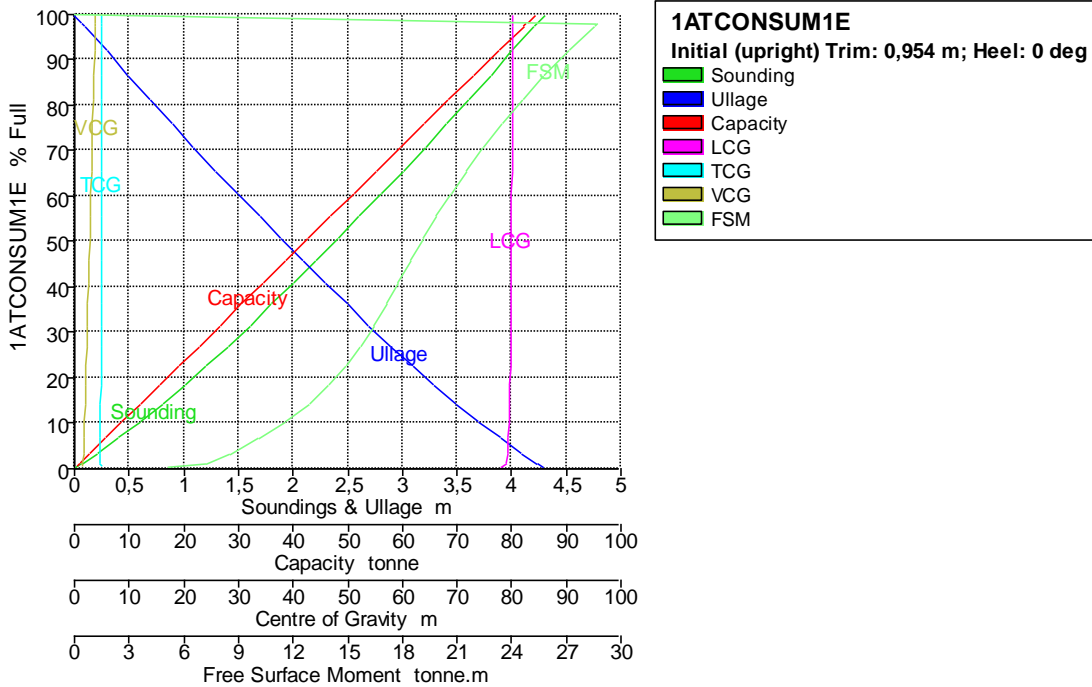


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AL11E	10,000	0,000	100,000	212,833	218,153	70,249	9,657	7,517	0,000
	10,000	0,000	99,668	212,126	217,429	70,235	9,657	7,504	17,243
	9,889	0,111	98,000	208,576	213,790	70,217	9,651	7,437	31,051
	9,882	0,118	97,900	208,363	213,572	70,216	9,651	7,433	31,026
	9,500	0,500	91,857	195,502	200,390	70,163	9,629	7,187	29,479

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	9,000	1,000	84,163	179,125	183,603	70,088	9,600	6,862	27,456
	8,500	1,500	76,717	163,279	167,361	70,007	9,571	6,534	25,431
	8,000	2,000	69,543	148,010	151,710	69,918	9,541	6,204	23,404
	7,500	2,500	62,665	133,372	136,706	69,823	9,512	5,870	21,368
	7,000	3,000	56,115	119,431	122,417	69,720	9,483	5,535	19,313
	6,500	3,500	49,933	106,274	108,931	69,612	9,456	5,200	17,215
	6,000	4,000	44,173	94,014	96,365	69,502	9,431	4,868	15,022
	5,500	4,500	38,911	82,816	84,886	69,398	9,412	4,545	12,613
	5,000	5,000	34,215	72,820	74,640	69,312	9,398	4,243	10,646
	4,500	5,500	29,841	63,511	65,099	69,232	9,387	3,948	9,703
	4,000	6,000	25,723	54,747	56,116	69,158	9,376	3,659	8,849
	3,500	6,500	21,839	46,480	47,642	69,089	9,364	3,376	8,086
	3,000	7,000	18,167	38,666	39,632	69,023	9,353	3,097	7,396
	2,500	7,500	14,690	31,266	32,048	68,959	9,342	2,822	6,774
	2,000	8,000	11,395	24,251	24,858	68,894	9,330	2,552	6,196
	1,500	8,500	8,270	17,602	18,042	68,825	9,318	2,285	5,644
	1,000	9,000	5,318	11,319	11,602	68,742	9,306	2,021	5,085
	0,500	9,500	2,557	5,443	5,579	68,620	9,295	1,760	4,446
	0,197	9,803	1,000	2,128	2,182	68,460	9,297	1,606	3,966
	0,000	10,000	0,069	0,147	0,151	67,140	9,475	1,515	2,701

Tank Calibrations - 1ATCONSUM1E

Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg

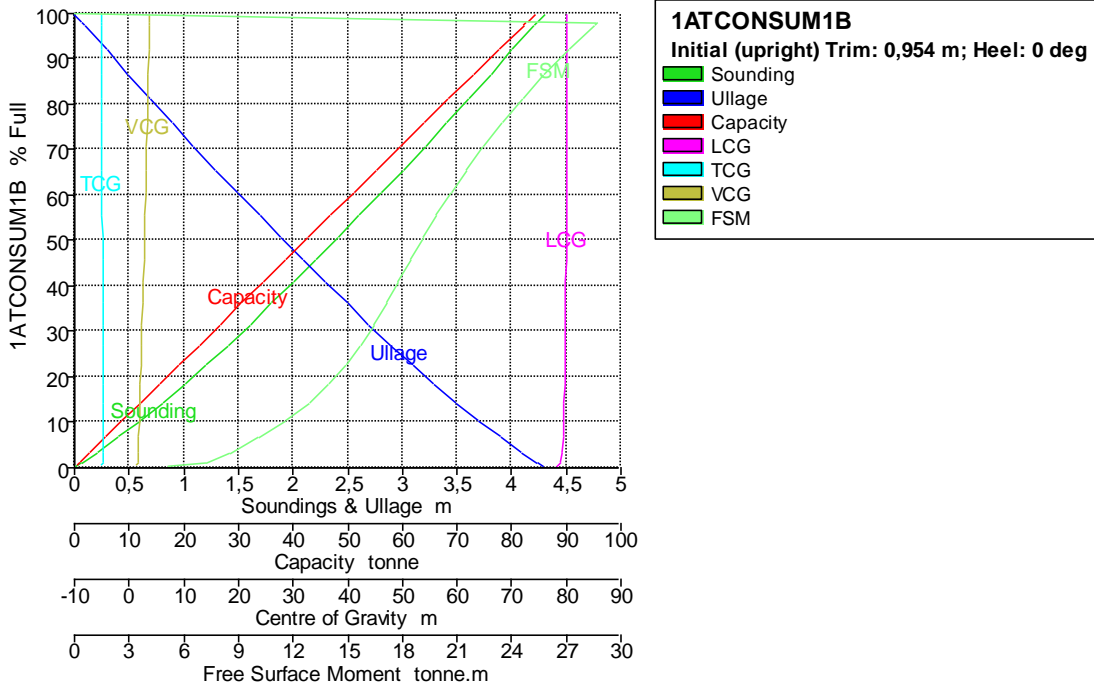


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
1ATCONSUM1E	4,300	0,000	100,000	84,403	84,403	80,115	4,990	3,827	0,000
	4,300	0,000	99,773	84,211	84,211	80,106	4,991	3,823	4,613

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	4,224	0,076	98,000	82,715	82,715	80,096	4,989	3,788	28,727
	4,221	0,079	97,900	82,630	82,630	80,096	4,989	3,786	28,699
	4,200	0,100	97,318	82,139	82,139	80,095	4,988	3,774	28,540
	4,000	0,300	91,756	77,445	77,445	80,089	4,976	3,663	27,080
	3,800	0,500	86,303	72,842	72,842	80,083	4,964	3,553	25,755
	3,600	0,700	80,946	68,321	68,321	80,076	4,953	3,444	24,545
	3,400	0,900	75,677	63,874	63,874	80,067	4,943	3,335	23,439
	3,200	1,100	70,487	59,493	59,493	80,057	4,933	3,227	22,427
	3,000	1,300	65,367	55,172	55,172	80,044	4,923	3,119	21,506
	2,800	1,500	60,313	50,906	50,906	80,029	4,914	3,011	20,657
	2,600	1,700	55,321	46,692	46,692	80,010	4,905	2,904	19,873
	2,400	1,900	50,390	42,531	42,531	79,989	4,896	2,796	19,140
	2,200	2,100	45,523	38,422	38,422	79,963	4,887	2,688	18,446
	2,000	2,300	40,724	34,372	34,372	79,932	4,877	2,580	17,775
	1,800	2,500	36,000	30,385	30,385	79,897	4,867	2,471	17,108
	1,600	2,700	31,364	26,472	26,472	79,857	4,857	2,363	16,413
	1,400	2,900	26,829	22,645	22,645	79,810	4,845	2,254	15,674
	1,200	3,100	22,416	18,919	18,919	79,756	4,832	2,145	14,851
	1,000	3,300	18,146	15,316	15,316	79,695	4,817	2,036	13,913
	0,800	3,500	14,051	11,859	11,859	79,624	4,800	1,928	12,827
	0,600	3,700	10,163	8,578	8,578	79,540	4,782	1,820	11,563
	0,400	3,900	6,525	5,507	5,507	79,436	4,762	1,714	10,101
	0,200	4,100	3,183	2,686	2,686	79,274	4,749	1,609	8,449
	0,057	4,243	1,000	0,844	0,844	78,883	4,794	1,538	7,168
	0,000	4,300	0,234	0,198	0,198	77,955	4,975	1,516	5,105

Tank Calibrations - 1ATCONSUM1B

Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



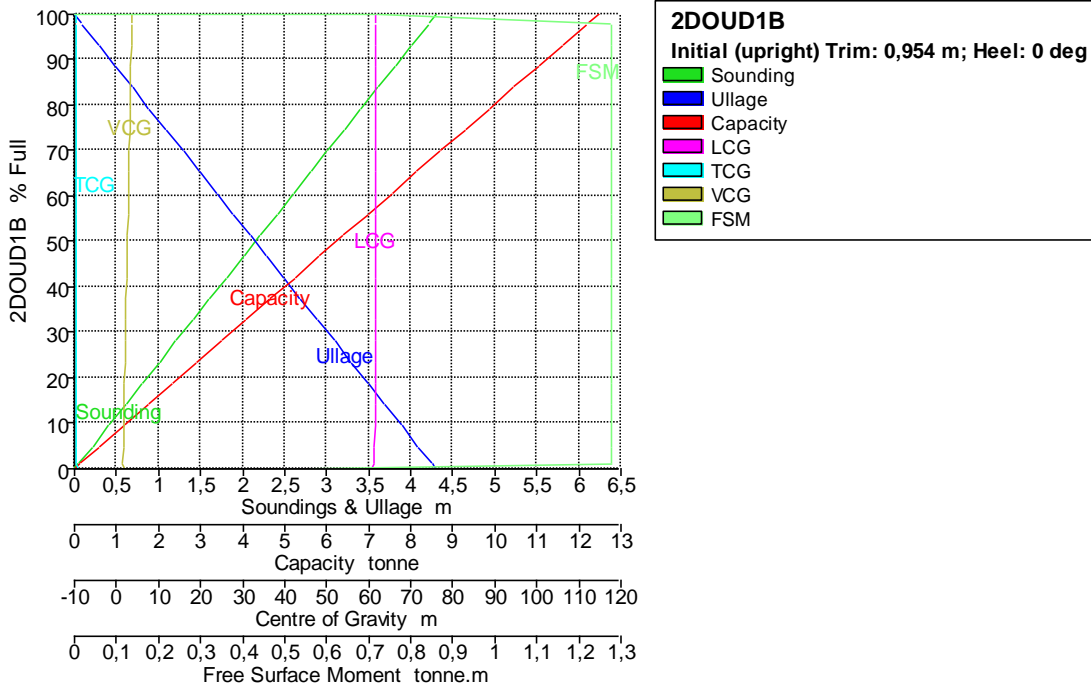
Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
1ATCONSUM1B	4,300	0,000	100,000	84,403	84,403	80,115	-4,990	3,827	0,000
	4,300	0,000	99,773	84,211	84,211	80,106	-4,991	3,823	4,613
	4,224	0,076	98,000	82,715	82,715	80,096	-4,989	3,788	28,727
	4,221	0,079	97,900	82,630	82,630	80,096	-4,989	3,786	28,699
	4,200	0,100	97,318	82,139	82,139	80,095	-4,988	3,774	28,540
	4,000	0,300	91,756	77,445	77,445	80,089	-4,976	3,663	27,080
	3,800	0,500	86,303	72,842	72,842	80,083	-4,964	3,553	25,755
	3,600	0,700	80,946	68,321	68,321	80,076	-4,953	3,444	24,545
	3,400	0,900	75,677	63,874	63,874	80,067	-4,943	3,335	23,439
	3,200	1,100	70,487	59,493	59,493	80,057	-4,933	3,227	22,427
	3,000	1,300	65,367	55,172	55,172	80,044	-4,923	3,119	21,506
	2,800	1,500	60,313	50,906	50,906	80,029	-4,914	3,011	20,657
	2,600	1,700	55,321	46,692	46,692	80,010	-4,905	2,904	19,873
	2,400	1,900	50,390	42,531	42,531	79,989	-4,896	2,796	19,140
	2,200	2,100	45,523	38,422	38,422	79,963	-4,887	2,688	18,446
	2,000	2,300	40,724	34,372	34,372	79,932	-4,877	2,580	17,775
	1,800	2,500	36,000	30,385	30,385	79,897	-4,867	2,471	17,108
	1,600	2,700	31,364	26,472	26,472	79,857	-4,857	2,363	16,413
	1,400	2,900	26,829	22,645	22,645	79,810	-4,845	2,254	15,674
	1,200	3,100	22,416	18,919	18,919	79,756	-4,832	2,145	14,851
	1,000	3,300	18,146	15,316	15,316	79,695	-4,817	2,036	13,913
	0,800	3,500	14,051	11,859	11,859	79,624	-4,800	1,928	12,827
	0,600	3,700	10,163	8,578	8,578	79,540	-4,782	1,820	11,563
	0,400	3,900	6,525	5,507	5,507	79,436	-4,762	1,714	10,101
	0,200	4,100	3,183	2,686	2,686	79,274	-4,749	1,609	8,449
	0,057	4,243	1,000	0,844	0,844	78,883	-4,794	1,538	7,168
	0,000	4,300	0,234	0,198	0,198	77,955	-4,975	1,516	5,105

Tank Calibrations - 2DOUD1B

Fluid Type = Diesel OIL Specific gravity = 0,84

Permeability = 100 %

Trim = 0,954 m (+ve by stern); Heel = 0 deg

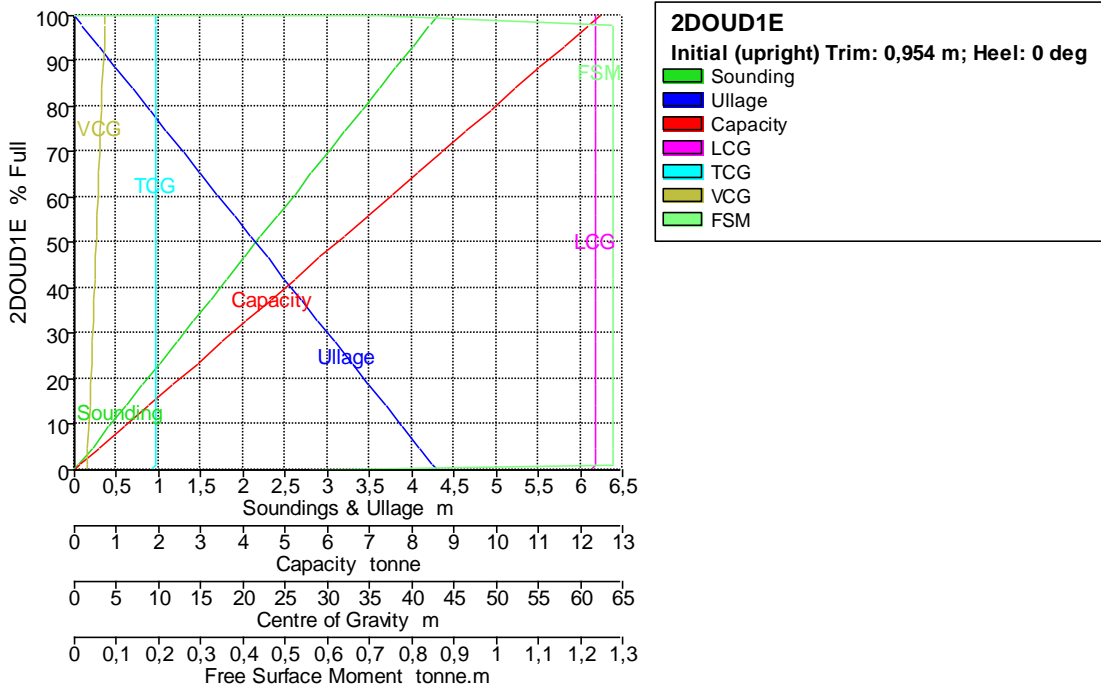


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DOUD1B	4,300	0,000	100,000	14,835	12,461	61,450	-9,550	3,650	0,000
	4,300	0,000	99,956	14,829	12,456	61,450	-9,550	3,649	0,721
	4,214	0,086	98,000	14,538	12,212	61,450	-9,550	3,607	1,278
	4,210	0,090	97,900	14,523	12,200	61,450	-9,550	3,605	1,278
	4,200	0,100	97,674	14,490	12,172	61,450	-9,550	3,600	1,278
	4,000	0,300	93,023	13,800	11,592	61,450	-9,550	3,500	1,278
	3,800	0,500	88,372	13,110	11,012	61,450	-9,550	3,400	1,278
	3,600	0,700	83,721	12,420	10,433	61,449	-9,550	3,300	1,278
	3,400	0,900	79,070	11,730	9,853	61,449	-9,550	3,200	1,278
	3,200	1,100	74,419	11,040	9,274	61,449	-9,550	3,100	1,278
	3,000	1,300	69,767	10,350	8,694	61,449	-9,550	3,000	1,278
	2,800	1,500	65,116	9,660	8,114	61,449	-9,550	2,900	1,278
	2,600	1,700	60,465	8,970	7,535	61,449	-9,550	2,800	1,278
	2,400	1,900	55,814	8,280	6,955	61,449	-9,550	2,700	1,278
	2,200	2,100	51,163	7,590	6,376	61,449	-9,550	2,600	1,278
	2,000	2,300	46,512	6,900	5,796	61,449	-9,550	2,500	1,278
	1,800	2,500	41,860	6,210	5,216	61,449	-9,550	2,400	1,278
	1,600	2,700	37,209	5,520	4,637	61,449	-9,550	2,300	1,278
	1,400	2,900	32,558	4,830	4,057	61,449	-9,550	2,200	1,278
	1,200	3,100	27,907	4,140	3,478	61,448	-9,550	2,100	1,278
	1,000	3,300	23,256	3,450	2,898	61,448	-9,550	2,000	1,278
	0,800	3,500	18,605	2,760	2,318	61,448	-9,550	1,900	1,278
	0,600	3,700	13,953	2,070	1,739	61,447	-9,550	1,800	1,278
	0,400	3,900	9,302	1,380	1,159	61,445	-9,550	1,700	1,278
	0,200	4,100	4,651	0,690	0,580	61,441	-9,550	1,600	1,278
	0,043	4,257	1,000	0,148	0,125	61,406	-9,550	1,522	1,278
	0,000	4,300	0,044	0,006	0,005	60,950	-9,337	1,580	0,556

Tank Calibrations - 2DOUD1E

Fluid Type = Diesel OIL Specific gravity = 0,84

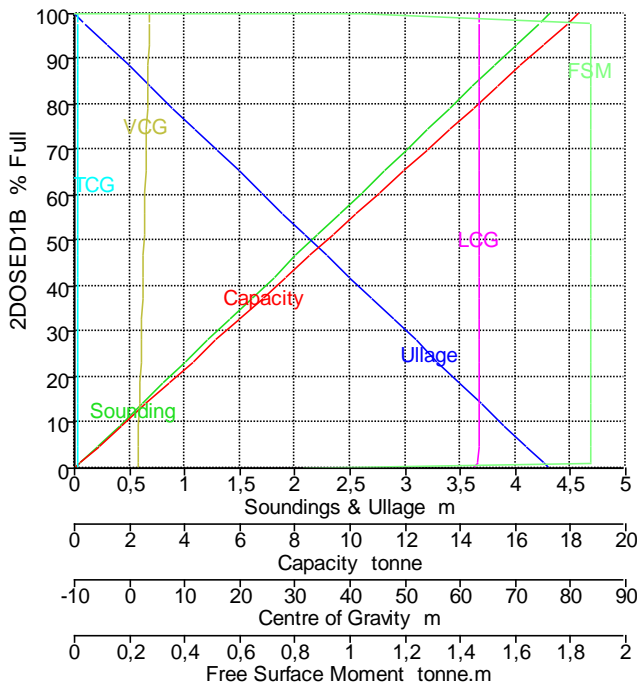
Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DOUD1E	4,300	0,000	100,000	14,835	12,461	61,870	9,550	3,650	0,000
	4,300	0,000	99,956	14,829	12,456	61,870	9,550	3,649	0,721
	4,214	0,086	98,000	14,538	12,212	61,870	9,550	3,607	1,278
	4,210	0,090	97,900	14,523	12,200	61,870	9,550	3,605	1,278
	4,200	0,100	97,674	14,490	12,172	61,870	9,550	3,600	1,278
	4,000	0,300	93,023	13,800	11,592	61,870	9,550	3,500	1,278
	3,800	0,500	88,372	13,110	11,012	61,870	9,550	3,400	1,278
	3,600	0,700	83,721	12,420	10,433	61,869	9,550	3,300	1,278
	3,400	0,900	79,070	11,730	9,853	61,869	9,550	3,200	1,278
	3,200	1,100	74,419	11,040	9,274	61,869	9,550	3,100	1,278
	3,000	1,300	69,767	10,350	8,694	61,869	9,550	3,000	1,278
	2,800	1,500	65,116	9,660	8,114	61,869	9,550	2,900	1,278
	2,600	1,700	60,465	8,970	7,535	61,869	9,550	2,800	1,278
	2,400	1,900	55,814	8,280	6,955	61,869	9,550	2,700	1,278
	2,200	2,100	51,163	7,590	6,376	61,869	9,550	2,600	1,278
	2,000	2,300	46,512	6,900	5,796	61,869	9,550	2,500	1,278
	1,800	2,500	41,860	6,210	5,216	61,869	9,550	2,400	1,278
	1,600	2,700	37,209	5,520	4,637	61,869	9,550	2,300	1,278
	1,400	2,900	32,558	4,830	4,057	61,869	9,550	2,200	1,278
	1,200	3,100	27,907	4,140	3,478	61,868	9,550	2,100	1,278
	1,000	3,300	23,256	3,450	2,898	61,868	9,550	2,000	1,278
	0,800	3,500	18,605	2,760	2,318	61,868	9,550	1,900	1,278
	0,600	3,700	13,953	2,070	1,739	61,867	9,550	1,800	1,278
	0,400	3,900	9,302	1,380	1,159	61,865	9,550	1,700	1,278
	0,200	4,100	4,651	0,690	0,580	61,861	9,550	1,600	1,278
	0,043	4,257	1,000	0,148	0,125	61,826	9,550	1,522	1,278
	0,000	4,300	0,044	0,006	0,005	61,370	9,337	1,580	0,556

Tank Calibrations - 2DOSED1B

Fluid Type = Diesel OIL Specific gravity = 0,84
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



2DOSED1B
 Initial (upright) Trim: 0,954 m; Heel: 0 deg

- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

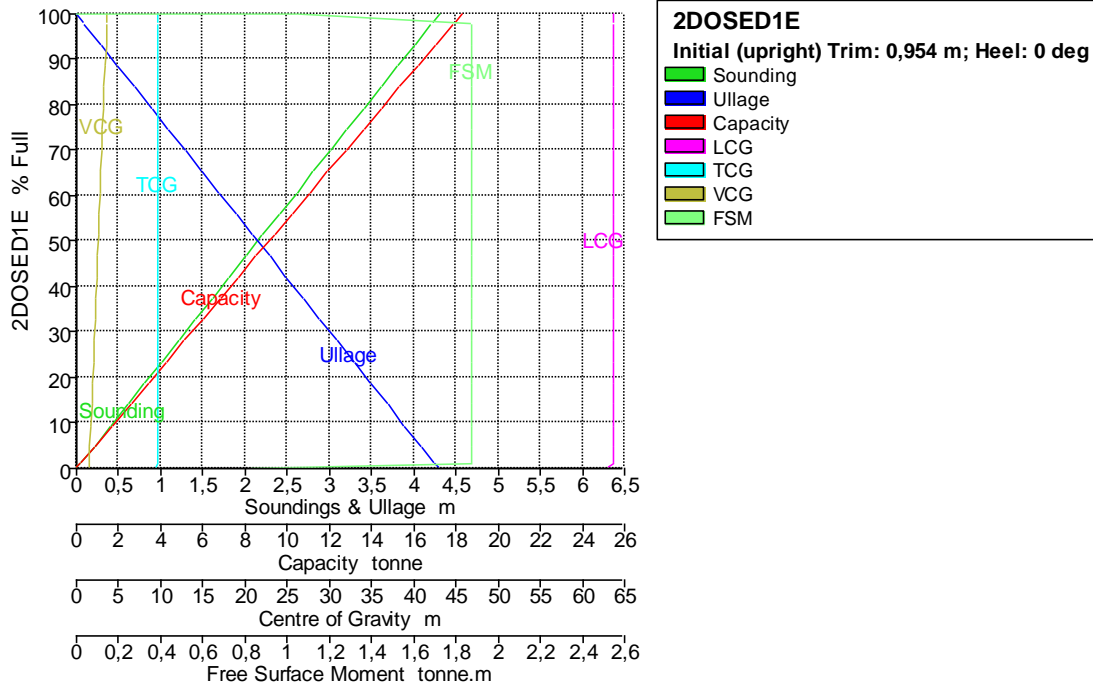
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DOSED1B	4,300	0,000	100,000	21,758	18,277	63,300	-9,550	3,650	0,000
	4,300	0,000	99,933	21,743	18,264	63,300	-9,550	3,649	1,049
	4,214	0,086	98,000	21,323	17,911	63,299	-9,550	3,607	1,874
	4,210	0,090	97,900	21,301	17,893	63,299	-9,550	3,605	1,874
	4,200	0,100	97,668	21,251	17,850	63,299	-9,550	3,600	1,874
	4,000	0,300	93,017	20,239	17,000	63,299	-9,550	3,500	1,874
	3,800	0,500	88,366	19,227	16,150	63,299	-9,550	3,400	1,874
	3,600	0,700	83,714	18,215	15,300	63,299	-9,550	3,300	1,874
	3,400	0,900	79,063	17,203	14,450	63,299	-9,550	3,200	1,874
	3,200	1,100	74,412	16,191	13,600	63,299	-9,550	3,100	1,874
	3,000	1,300	69,761	15,179	12,750	63,299	-9,550	3,000	1,874
	2,800	1,500	65,110	14,167	11,900	63,299	-9,550	2,900	1,874
	2,600	1,700	60,459	13,155	11,050	63,298	-9,550	2,800	1,874
	2,400	1,900	55,807	12,143	10,200	63,298	-9,550	2,700	1,874
	2,200	2,100	51,156	11,131	9,350	63,298	-9,550	2,600	1,874
	2,000	2,300	46,505	10,119	8,500	63,298	-9,550	2,500	1,874
	1,800	2,500	41,854	9,107	7,650	63,298	-9,550	2,400	1,874
	1,600	2,700	37,203	8,095	6,799	63,297	-9,550	2,300	1,874
	1,400	2,900	32,552	7,083	5,949	63,297	-9,550	2,200	1,874
	1,200	3,100	27,900	6,071	5,099	63,297	-9,550	2,100	1,874
	1,000	3,300	23,249	5,059	4,249	63,296	-9,550	2,000	1,874
	0,800	3,500	18,598	4,047	3,399	63,295	-9,550	1,900	1,874
	0,600	3,700	13,947	3,035	2,549	63,293	-9,550	1,800	1,874
	0,400	3,900	9,296	2,023	1,699	63,290	-9,550	1,700	1,874
	0,200	4,100	4,645	1,011	0,849	63,280	-9,550	1,600	1,874
	0,043	4,257	1,000	0,218	0,183	63,206	-9,550	1,522	1,874
	0,000	4,300	0,061	0,013	0,011	62,557	-9,431	1,547	0,825

Tank Calibrations - 2DOSED1E

Fluid Type = Diesel OIL Specific gravity = 0,84

Permeability = 100 %

Trim = 0,954 m (+ve by stern); Heel = 0 deg

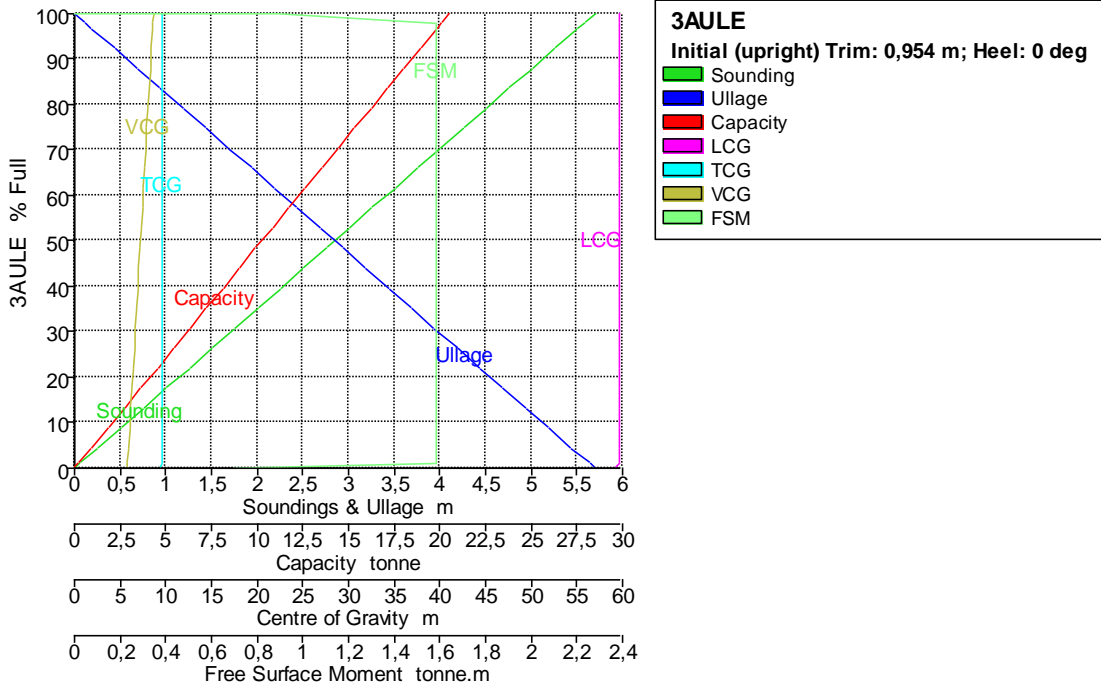


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DOSED1E	4,300	0,000	100,000	21,758	18,277	63,720	9,550	3,650	0,000
	4,300	0,000	99,932	21,743	18,264	63,720	9,550	3,649	1,053
	4,214	0,086	98,000	21,323	17,911	63,719	9,550	3,607	1,874
	4,210	0,090	97,900	21,301	17,893	63,719	9,550	3,605	1,874
	4,200	0,100	97,667	21,250	17,850	63,719	9,550	3,600	1,874
	4,000	0,300	93,016	20,238	17,000	63,719	9,550	3,500	1,874
	3,800	0,500	88,364	19,226	16,150	63,719	9,550	3,400	1,874
	3,600	0,700	83,713	18,214	15,300	63,719	9,550	3,300	1,874
	3,400	0,900	79,062	17,202	14,450	63,719	9,550	3,200	1,874
	3,200	1,100	74,411	16,190	13,600	63,719	9,550	3,100	1,874
	3,000	1,300	69,760	15,178	12,750	63,719	9,550	3,000	1,874
	2,800	1,500	65,109	14,166	11,900	63,719	9,550	2,900	1,874
	2,600	1,700	60,458	13,154	11,050	63,718	9,550	2,800	1,874
	2,400	1,900	55,806	12,142	10,200	63,718	9,550	2,700	1,874
	2,200	2,100	51,155	11,130	9,349	63,718	9,550	2,600	1,874
	2,000	2,300	46,504	10,118	8,499	63,718	9,550	2,500	1,874
	1,800	2,500	41,853	9,106	7,649	63,718	9,550	2,400	1,874
	1,600	2,700	37,202	8,094	6,799	63,717	9,550	2,300	1,874
	1,400	2,900	32,551	7,082	5,949	63,717	9,550	2,200	1,874
	1,200	3,100	27,899	6,070	5,099	63,717	9,550	2,100	1,874
	1,000	3,300	23,248	5,058	4,249	63,716	9,550	2,000	1,874
	0,800	3,500	18,597	4,046	3,399	63,715	9,550	1,900	1,874
	0,600	3,700	13,946	3,034	2,549	63,713	9,550	1,800	1,874
	0,400	3,900	9,295	2,022	1,699	63,710	9,550	1,700	1,874
	0,200	4,100	4,644	1,010	0,849	63,700	9,550	1,600	1,874
	0,043	4,257	1,000	0,218	0,183	63,626	9,550	1,522	1,874

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,000	4,300	0,060	0,013	0,011	62,976	9,430	1,547	0,821

Tank Calibrations - 3AULE

Fluid Type = Aceite Specific gravity = 0,92
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg

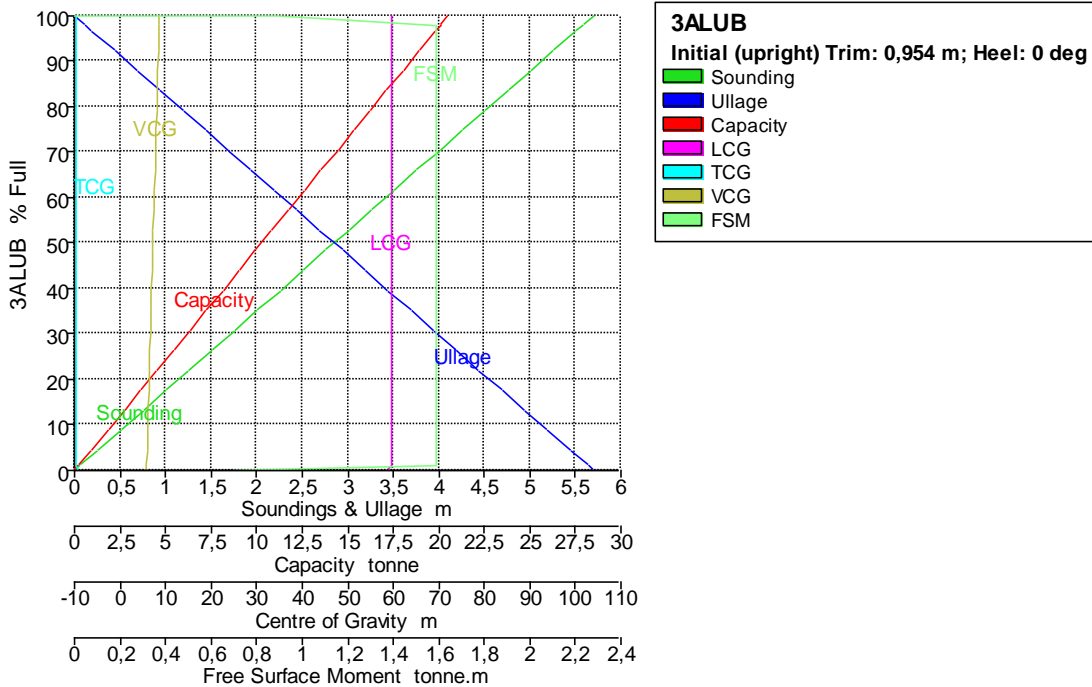


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3AULE	5,700	0,000	100,000	22,287	20,504	59,650	9,550	8,650	0,000
	5,700	0,000	99,963	22,279	20,496	59,650	9,550	8,649	0,896
	5,586	0,114	98,000	21,841	20,094	59,650	9,550	8,593	1,586
	5,580	0,120	97,900	21,819	20,073	59,650	9,550	8,590	1,586
	5,500	0,200	96,491	21,505	19,785	59,650	9,550	8,550	1,586
	5,250	0,450	92,105	20,527	18,885	59,650	9,550	8,425	1,586
	5,000	0,700	87,719	19,550	17,986	59,650	9,550	8,300	1,586
	4,750	0,950	83,333	18,572	17,087	59,649	9,550	8,175	1,586
	4,500	1,200	78,947	17,595	16,187	59,649	9,550	8,050	1,586
	4,250	1,450	74,561	16,617	15,288	59,649	9,550	7,925	1,586
	4,000	1,700	70,175	15,640	14,389	59,649	9,550	7,800	1,586
	3,750	1,950	65,789	14,662	13,489	59,649	9,550	7,675	1,586
	3,500	2,200	61,404	13,685	12,590	59,649	9,550	7,550	1,586
	3,250	2,450	57,018	12,707	11,691	59,649	9,550	7,425	1,586
	3,000	2,700	52,632	11,730	10,792	59,649	9,550	7,300	1,586
	2,750	2,950	48,246	10,752	9,892	59,649	9,550	7,175	1,586
	2,500	3,200	43,860	9,775	8,993	59,649	9,550	7,050	1,586
	2,250	3,450	39,474	8,797	8,094	59,649	9,550	6,925	1,586
	2,000	3,700	35,088	7,820	7,194	59,649	9,550	6,800	1,586
	1,750	3,950	30,702	6,842	6,295	59,649	9,550	6,675	1,586
	1,500	4,200	26,316	5,865	5,396	59,648	9,550	6,550	1,586

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	1,250	4,450	21,930	4,887	4,496	59,648	9,550	6,425	1,586
	1,000	4,700	17,544	3,910	3,597	59,648	9,550	6,300	1,586
	0,750	4,950	13,158	2,932	2,698	59,647	9,550	6,175	1,586
	0,500	5,200	8,772	1,955	1,799	59,645	9,550	6,050	1,586
	0,250	5,450	4,386	0,977	0,899	59,640	9,550	5,925	1,586
	0,057	5,643	1,000	0,223	0,205	59,608	9,550	5,829	1,586
	0,000	5,700	0,037	0,008	0,008	59,083	9,337	5,784	0,690

Tank Calibrations - 3ALUB

Fluid Type = Aceite Specific gravity = 0,92
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3ALUB	5,700	0,000	100,000	22,287	20,504	59,650	-9,550	8,650	0,000
	5,700	0,000	99,963	22,279	20,496	59,650	-9,550	8,649	0,896
	5,586	0,114	98,000	21,841	20,094	59,650	-9,550	8,593	1,586
	5,580	0,120	97,900	21,819	20,073	59,650	-9,550	8,590	1,586
	5,500	0,200	96,491	21,505	19,785	59,650	-9,550	8,550	1,586
	5,250	0,450	92,105	20,527	18,885	59,650	-9,550	8,425	1,586
	5,000	0,700	87,719	19,550	17,986	59,650	-9,550	8,300	1,586
	4,750	0,950	83,333	18,572	17,087	59,649	-9,550	8,175	1,586
	4,500	1,200	78,947	17,595	16,187	59,649	-9,550	8,050	1,586
	4,250	1,450	74,561	16,617	15,288	59,649	-9,550	7,925	1,586
	4,000	1,700	70,175	15,640	14,389	59,649	-9,550	7,800	1,586
	3,750	1,950	65,789	14,662	13,489	59,649	-9,550	7,675	1,586
	3,500	2,200	61,404	13,685	12,590	59,649	-9,550	7,550	1,586
	3,250	2,450	57,018	12,707	11,691	59,649	-9,550	7,425	1,586
	3,000	2,700	52,632	11,730	10,792	59,649	-9,550	7,300	1,586

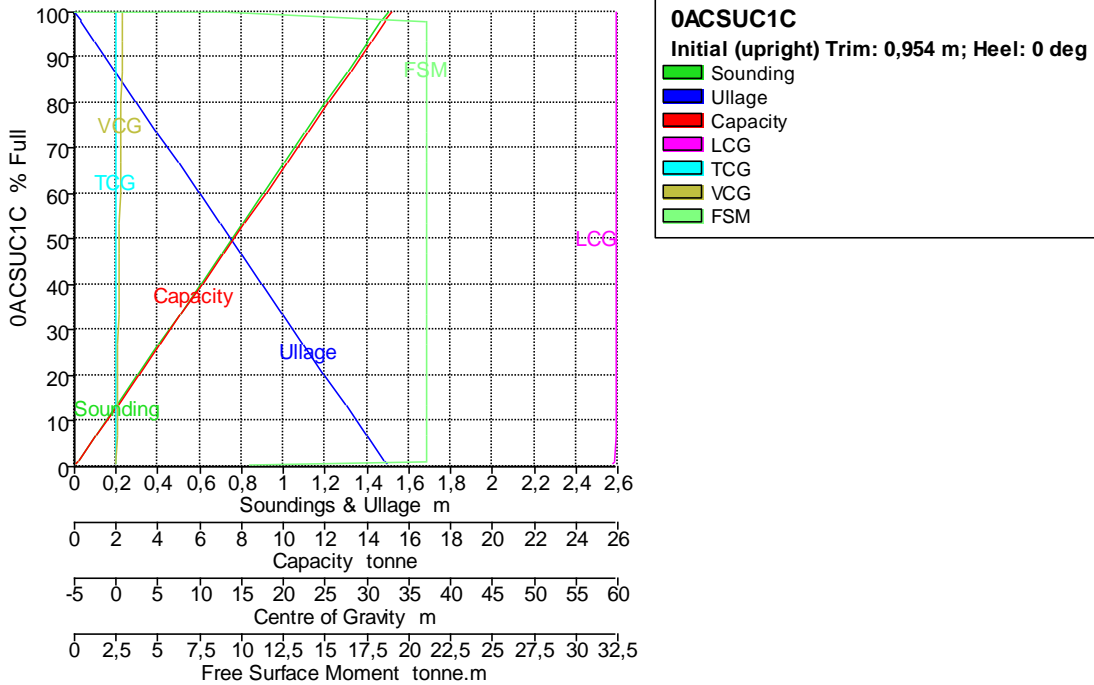
Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	2,750	2,950	48,246	10,752	9,892	59,649	-9,550	7,175	1,586
	2,500	3,200	43,860	9,775	8,993	59,649	-9,550	7,050	1,586
	2,250	3,450	39,474	8,797	8,094	59,649	-9,550	6,925	1,586
	2,000	3,700	35,088	7,820	7,194	59,649	-9,550	6,800	1,586
	1,750	3,950	30,702	6,842	6,295	59,649	-9,550	6,675	1,586
	1,500	4,200	26,316	5,865	5,396	59,648	-9,550	6,550	1,586
	1,250	4,450	21,930	4,887	4,496	59,648	-9,550	6,425	1,586
	1,000	4,700	17,544	3,910	3,597	59,648	-9,550	6,300	1,586
	0,750	4,950	13,158	2,932	2,698	59,647	-9,550	6,175	1,586
	0,500	5,200	8,772	1,955	1,799	59,645	-9,550	6,050	1,586
	0,250	5,450	4,386	0,977	0,899	59,640	-9,550	5,925	1,586
	0,057	5,643	1,000	0,223	0,205	59,608	-9,550	5,829	1,586
	0,000	5,700	0,037	0,008	0,008	59,083	-9,337	5,784	0,690

Tank Calibrations - 0ACSUC1C

Fluid Type = Aceite Specific gravity = 0,92

Permeability = 100 %

Trim = 0,954 m (+ve by stern); Heel = 0 deg

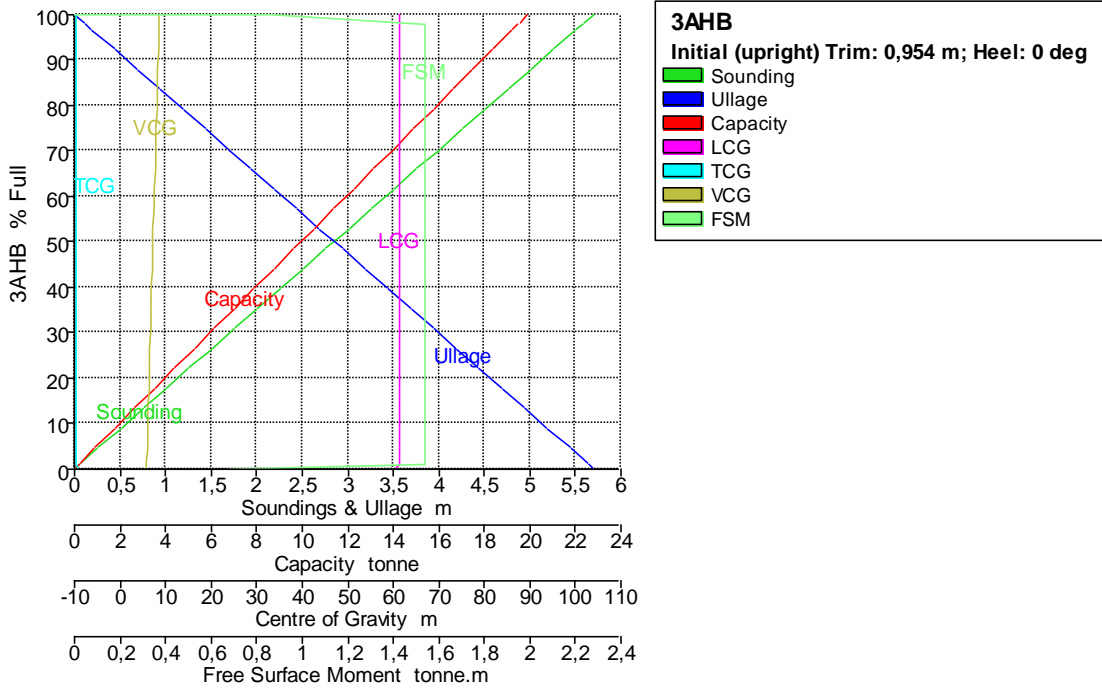


Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0ACSUC1C	1,500	0,000	100,000	16,482	15,163	59,900	0,000	0,751	0,000
	1,500	0,000	99,893	16,464	15,147	59,899	0,000	0,750	9,059
	1,467	0,033	98,000	16,152	14,860	59,897	0,000	0,736	21,084
	1,466	0,034	97,900	16,136	14,845	59,897	0,000	0,735	21,084
	1,400	0,100	93,498	15,410	14,177	59,897	0,000	0,702	21,084
	1,300	0,200	86,824	14,310	13,165	59,897	0,000	0,652	21,084
	1,200	0,300	80,150	13,210	12,153	59,897	0,000	0,602	21,084
	1,100	0,400	73,476	12,110	11,141	59,896	0,000	0,552	21,084
	1,000	0,500	66,802	11,010	10,129	59,896	0,000	0,502	21,084

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,900	0,600	60,128	9,910	9,117	59,895	0,000	0,452	21,084
	0,800	0,700	53,454	8,810	8,105	59,895	0,000	0,402	21,084
	0,700	0,800	46,780	7,710	7,093	59,894	0,000	0,352	21,084
	0,600	0,900	40,106	6,610	6,081	59,893	0,000	0,302	21,084
	0,500	1,000	33,432	5,510	5,069	59,892	0,000	0,252	21,084
	0,400	1,100	26,758	4,410	4,057	59,890	0,000	0,202	21,084
	0,300	1,200	20,084	3,310	3,045	59,886	0,000	0,152	21,084
	0,200	1,300	13,410	2,210	2,033	59,879	0,000	0,102	21,084
	0,100	1,400	6,735	1,110	1,021	59,859	0,000	0,052	21,084
	0,014	1,486	1,000	0,165	0,152	59,623	0,000	0,010	21,083
	0,000	1,500	0,225	0,037	0,034	59,211	0,000	0,025	10,400

Tank Calibrations - 3AHB

Fluid Type = Aceite Specific gravity = 0,92
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg

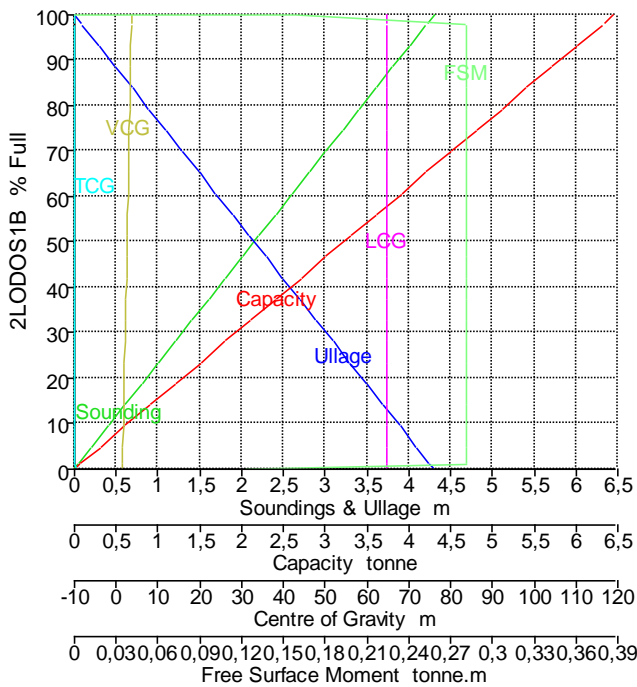


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3AHB	5,700	0,000	100,000	21,631	19,901	61,325	-9,550	8,650	0,000
	5,700	0,000	99,964	21,624	19,894	61,325	-9,550	8,649	0,869
	5,586	0,114	98,000	21,199	19,503	61,325	-9,550	8,593	1,539
	5,580	0,120	97,900	21,177	19,483	61,325	-9,550	8,590	1,539
	5,500	0,200	96,491	20,872	19,203	61,325	-9,550	8,550	1,539
	5,250	0,450	92,105	19,924	18,330	61,325	-9,550	8,425	1,539
	5,000	0,700	87,719	18,975	17,457	61,325	-9,550	8,300	1,539
	4,750	0,950	83,333	18,026	16,584	61,325	-9,550	8,175	1,539
	4,500	1,200	78,947	17,077	15,711	61,324	-9,550	8,050	1,539
	4,250	1,450	74,561	16,129	14,838	61,324	-9,550	7,925	1,539
	4,000	1,700	70,175	15,180	13,966	61,324	-9,550	7,800	1,539

Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	3,750	1,950	65,789	14,231	13,093	61,324	-9,550	7,675	1,539
	3,500	2,200	61,404	13,282	12,220	61,324	-9,550	7,550	1,539
	3,250	2,450	57,018	12,334	11,347	61,324	-9,550	7,425	1,539
	3,000	2,700	52,632	11,385	10,474	61,324	-9,550	7,300	1,539
	2,750	2,950	48,246	10,436	9,601	61,324	-9,550	7,175	1,539
	2,500	3,200	43,860	9,487	8,728	61,324	-9,550	7,050	1,539
	2,250	3,450	39,474	8,539	7,856	61,324	-9,550	6,925	1,539
	2,000	3,700	35,088	7,590	6,983	61,324	-9,550	6,800	1,539
	1,750	3,950	30,702	6,641	6,110	61,324	-9,550	6,675	1,539
	1,500	4,200	26,316	5,692	5,237	61,323	-9,550	6,550	1,539
	1,250	4,450	21,930	4,744	4,364	61,323	-9,550	6,425	1,539
	1,000	4,700	17,544	3,795	3,491	61,323	-9,550	6,300	1,539
	0,750	4,950	13,158	2,846	2,619	61,322	-9,550	6,175	1,539
	0,500	5,200	8,772	1,897	1,746	61,320	-9,550	6,050	1,539
	0,250	5,450	4,386	0,949	0,873	61,316	-9,550	5,925	1,539
	0,057	5,643	1,000	0,216	0,199	61,285	-9,550	5,829	1,539
	0,000	5,700	0,036	0,008	0,007	60,775	-9,337	5,784	0,670

Tank Calibrations - 2LODOS1B

Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



2LODOS1B
 Initial (upright) Trim: 0,954 m; Heel: 0 deg

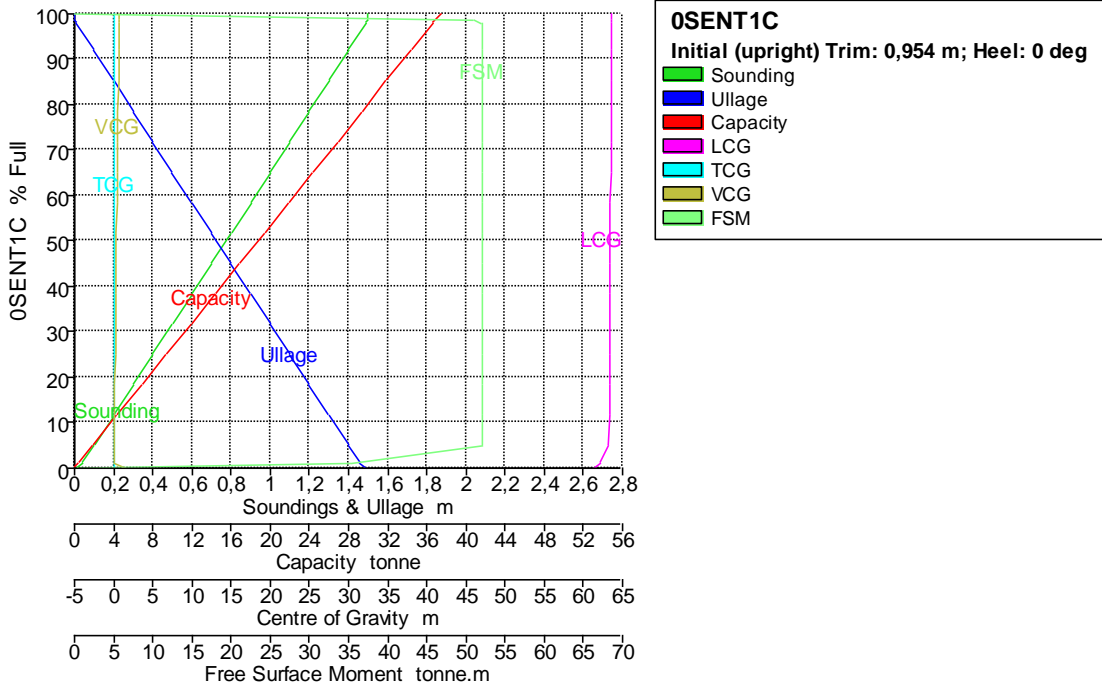
- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2LODOS1B	4,300	0,000	100,000	6,450	6,450	64,900	-9,950	3,650	0,000
	4,300	0,000	99,971	6,448	6,448	64,900	-9,950	3,649	0,159
	4,214	0,086	98,000	6,321	6,321	64,900	-9,950	3,607	0,281
	4,210	0,090	97,900	6,315	6,315	64,900	-9,950	3,605	0,281
	4,200	0,100	97,674	6,300	6,300	64,900	-9,950	3,600	0,281

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	4,000	0,300	93,023	6,000	6,000	64,900	-9,950	3,500	0,281
	3,800	0,500	88,372	5,700	5,700	64,900	-9,950	3,400	0,281
	3,600	0,700	83,721	5,400	5,400	64,900	-9,950	3,300	0,281
	3,400	0,900	79,070	5,100	5,100	64,900	-9,950	3,200	0,281
	3,200	1,100	74,419	4,800	4,800	64,900	-9,950	3,100	0,281
	3,000	1,300	69,767	4,500	4,500	64,900	-9,950	3,000	0,281
	2,800	1,500	65,116	4,200	4,200	64,900	-9,950	2,900	0,281
	2,600	1,700	60,465	3,900	3,900	64,900	-9,950	2,800	0,281
	2,400	1,900	55,814	3,600	3,600	64,900	-9,950	2,700	0,281
	2,200	2,100	51,163	3,300	3,300	64,900	-9,950	2,600	0,281
	2,000	2,300	46,512	3,000	3,000	64,900	-9,950	2,500	0,281
	1,800	2,500	41,860	2,700	2,700	64,900	-9,950	2,400	0,281
	1,600	2,700	37,209	2,400	2,400	64,899	-9,950	2,300	0,281
	1,400	2,900	32,558	2,100	2,100	64,899	-9,950	2,200	0,281
	1,200	3,100	27,907	1,800	1,800	64,899	-9,950	2,100	0,281
	1,000	3,300	23,256	1,500	1,500	64,899	-9,950	2,000	0,281
	0,800	3,500	18,605	1,200	1,200	64,899	-9,950	1,900	0,281
	0,600	3,700	13,953	0,900	0,900	64,899	-9,950	1,800	0,281
	0,400	3,900	9,302	0,600	0,600	64,898	-9,950	1,700	0,281
	0,200	4,100	4,651	0,300	0,300	64,896	-9,950	1,600	0,281
	0,043	4,257	1,000	0,065	0,065	64,881	-9,950	1,522	0,281
	0,000	4,300	0,029	0,002	0,002	64,567	-9,728	1,579	0,122

Tank Calibrations - 0SENT1C

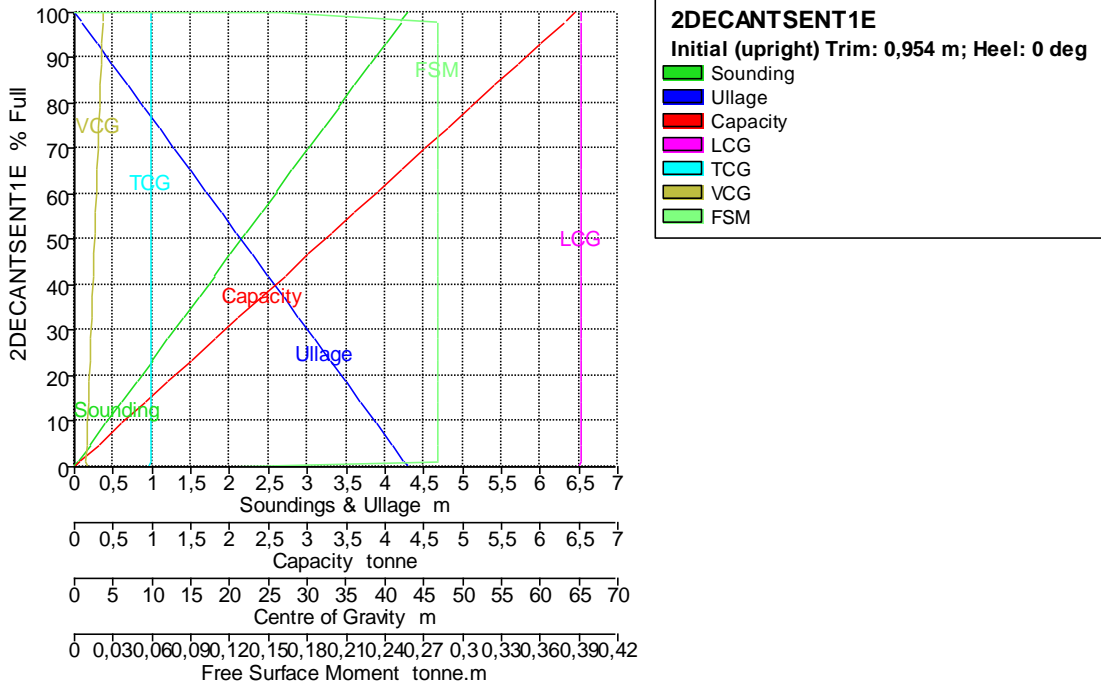
Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
OSENT1C	1,500	0,000	100,000	37,387	37,387	63,498	0,000	0,752	0,000
	1,500	0,000	98,457	36,810	36,810	63,484	0,000	0,741	51,063
	1,493	0,007	98,000	36,639	36,639	63,484	0,000	0,737	52,086
	1,492	0,008	97,900	36,601	36,601	63,484	0,000	0,737	52,086
	1,400	0,100	91,777	34,312	34,312	63,483	0,000	0,691	52,086
	1,300	0,200	85,090	31,812	31,812	63,482	0,000	0,641	52,086
	1,200	0,300	78,403	29,312	29,312	63,480	0,000	0,591	52,086
	1,100	0,400	71,717	26,812	26,812	63,478	0,000	0,541	52,086
	1,000	0,500	65,030	24,312	24,312	63,476	0,000	0,491	52,086
	0,900	0,600	58,343	21,812	21,812	63,473	0,000	0,441	52,086
	0,800	0,700	51,656	19,312	19,312	63,470	0,000	0,391	52,086
	0,700	0,800	44,969	16,812	16,812	63,465	0,000	0,341	52,086
	0,600	0,900	38,282	14,312	14,312	63,459	0,000	0,291	52,086
	0,500	1,000	31,595	11,812	11,812	63,450	0,000	0,241	52,086
	0,400	1,100	24,908	9,312	9,312	63,437	0,000	0,191	52,086
	0,300	1,200	18,221	6,812	6,812	63,414	0,000	0,141	52,086
	0,200	1,300	11,534	4,312	4,312	63,364	0,000	0,091	52,086
	0,100	1,400	4,848	1,812	1,812	63,177	0,000	0,042	52,086
	0,040	1,460	1,000	0,374	0,374	62,242	0,000	0,017	35,283
	0,000	1,500	0,001	0,000	0,000	61,065	0,000	1,653	0,185

Tank Calibrations - 2DECANTSENT1E

Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg

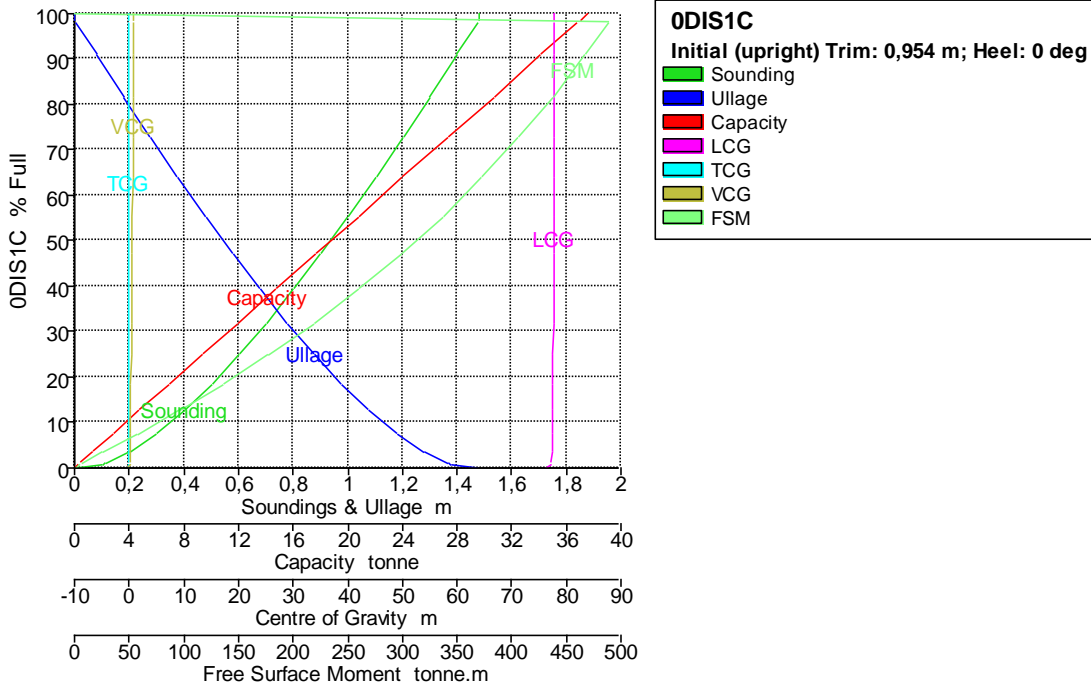


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2DECANTSENT1E	4,300	0,000	100,000	6,450	6,450	65,320	9,950	3,650	0,000

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	4,300	0,000	99,971	6,448	6,448	65,320	9,950	3,649	0,159
	4,214	0,086	98,000	6,321	6,321	65,320	9,950	3,607	0,281
	4,210	0,090	97,900	6,315	6,315	65,320	9,950	3,605	0,281
	4,200	0,100	97,674	6,300	6,300	65,320	9,950	3,600	0,281
	4,000	0,300	93,023	6,000	6,000	65,320	9,950	3,500	0,281
	3,800	0,500	88,372	5,700	5,700	65,320	9,950	3,400	0,281
	3,600	0,700	83,721	5,400	5,400	65,320	9,950	3,300	0,281
	3,400	0,900	79,070	5,100	5,100	65,320	9,950	3,200	0,281
	3,200	1,100	74,419	4,800	4,800	65,320	9,950	3,100	0,281
	3,000	1,300	69,767	4,500	4,500	65,320	9,950	3,000	0,281
	2,800	1,500	65,116	4,200	4,200	65,320	9,950	2,900	0,281
	2,600	1,700	60,465	3,900	3,900	65,320	9,950	2,800	0,281
	2,400	1,900	55,814	3,600	3,600	65,320	9,950	2,700	0,281
	2,200	2,100	51,163	3,300	3,300	65,320	9,950	2,600	0,281
	2,000	2,300	46,512	3,000	3,000	65,320	9,950	2,500	0,281
	1,800	2,500	41,860	2,700	2,700	65,320	9,950	2,400	0,281
	1,600	2,700	37,209	2,400	2,400	65,319	9,950	2,300	0,281
	1,400	2,900	32,558	2,100	2,100	65,319	9,950	2,200	0,281
	1,200	3,100	27,907	1,800	1,800	65,319	9,950	2,100	0,281
	1,000	3,300	23,256	1,500	1,500	65,319	9,950	2,000	0,281
	0,800	3,500	18,605	1,200	1,200	65,319	9,950	1,900	0,281
	0,600	3,700	13,953	0,900	0,900	65,319	9,950	1,800	0,281
	0,400	3,900	9,302	0,600	0,600	65,318	9,950	1,700	0,281
	0,200	4,100	4,651	0,300	0,300	65,316	9,950	1,600	0,281
	0,043	4,257	1,000	0,065	0,065	65,301	9,950	1,522	0,281
	0,000	4,300	0,029	0,002	0,002	64,987	9,728	1,579	0,122

Tank Calibrations - 0DIS1C

Fluid Type = Dispersante Specific gravity = 0,8
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



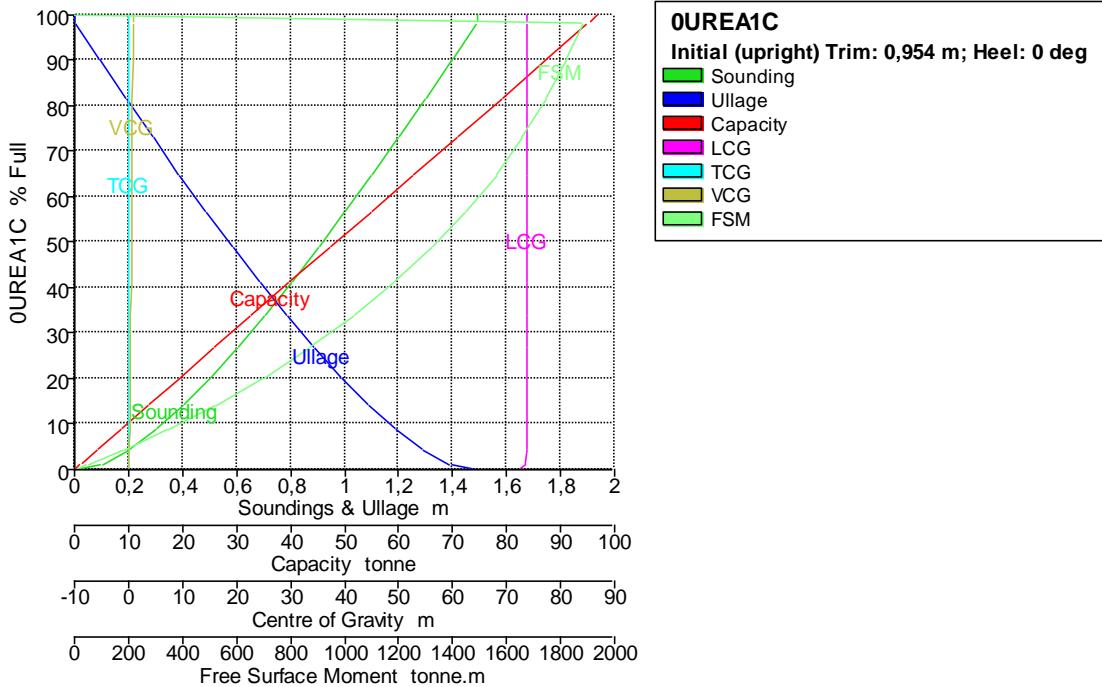
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0DIS1C	1,481	0,000	100,000	46,961	37,569	77,658	0,000	0,904	0,000
	1,481	0,000	98,408	46,213	36,971	77,648	0,000	0,895	489,186
	1,477	0,004	98,000	46,022	36,817	77,648	0,000	0,892	488,053
	1,476	0,005	97,900	45,975	36,780	77,648	0,000	0,892	487,775
	1,400	0,081	90,764	42,623	34,099	77,646	0,000	0,848	467,072
	1,300	0,181	81,524	38,285	30,628	77,643	0,000	0,791	437,644
	1,200	0,281	72,502	34,047	27,238	77,639	0,000	0,734	405,891
	1,100	0,381	63,722	29,924	23,940	77,636	0,000	0,676	371,982
	1,000	0,481	55,217	25,930	20,744	77,631	0,000	0,618	336,122
	0,900	0,581	47,021	22,082	17,665	77,625	0,000	0,560	298,465
	0,800	0,681	39,176	18,397	14,718	77,619	0,000	0,502	259,169
	0,700	0,781	31,731	14,901	11,921	77,610	0,000	0,443	218,482
	0,600	0,881	24,749	11,622	9,298	77,598	0,000	0,383	176,895
	0,500	0,981	18,308	8,598	6,878	77,583	0,000	0,323	135,168
	0,400	1,081	12,510	5,875	4,700	77,559	0,000	0,263	94,522
	0,300	1,181	7,493	3,519	2,815	77,519	0,000	0,202	56,864
	0,200	1,281	3,464	1,627	1,301	77,435	0,000	0,141	25,258
	0,112	1,369	1,000	0,470	0,376	77,219	0,000	0,086	6,343
	0,100	1,381	0,770	0,362	0,289	77,158	0,000	0,079	4,721
	0,000	1,481	0,000	0,000	0,000	76,047	0,000	0,019	0,000

Tank Calibrations - 0UREA1C

Fluid Type = Urea Specific gravity = 1,32

Permeability = 100 %

Trim = 0,954 m (+ve by stern); Heel = 0 deg

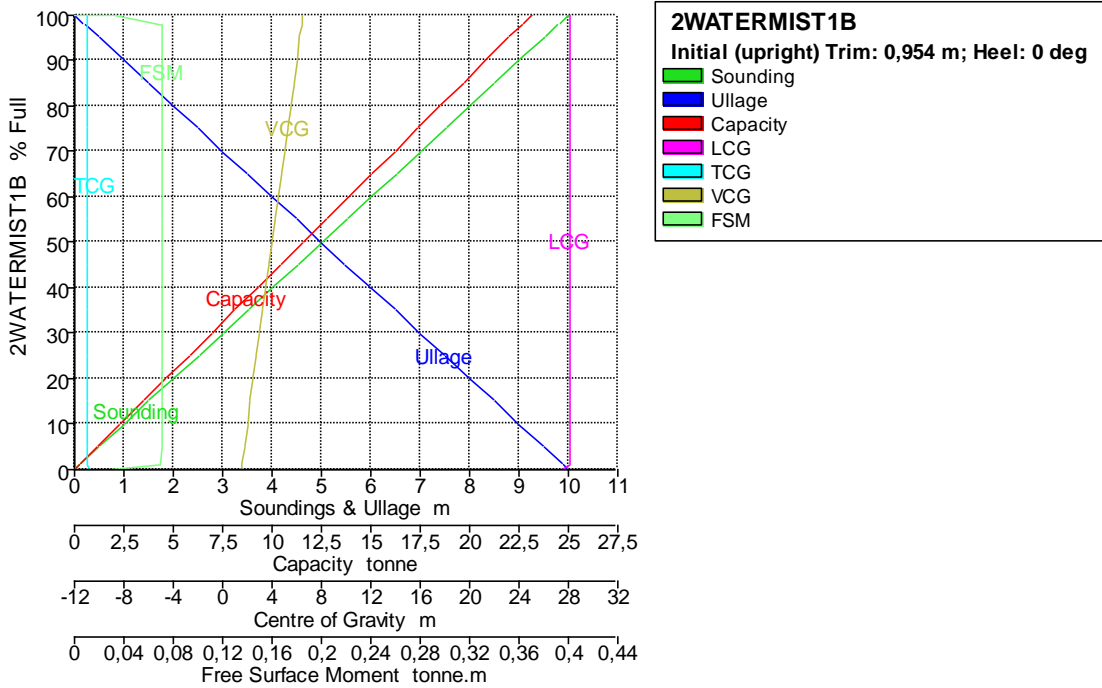


Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
0UREA1C	1,492	0,000	100,000	73,384	96,867	73,899	0,000	0,876	0,000

Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	1,492	0,000	98,302	72,137	95,221	73,887	0,000	0,865	1881,858
	1,489	0,003	98,000	71,916	94,929	73,887	0,000	0,864	1879,781
	1,488	0,005	97,900	71,843	94,832	73,887	0,000	0,863	1879,088
	1,400	0,092	90,231	66,215	87,403	73,883	0,000	0,814	1822,033
	1,300	0,192	81,578	59,865	79,022	73,879	0,000	0,759	1747,101
	1,200	0,292	73,061	53,615	70,772	73,875	0,000	0,703	1660,495
	1,100	0,392	64,706	47,484	62,679	73,870	0,000	0,647	1561,080
	1,000	0,492	56,544	41,494	54,772	73,865	0,000	0,590	1448,127
	0,900	0,592	48,610	35,672	47,087	73,858	0,000	0,533	1321,559
	0,800	0,692	40,944	30,047	39,661	73,851	0,000	0,476	1181,964
	0,700	0,792	33,595	24,653	32,542	73,842	0,000	0,418	1030,431
	0,600	0,892	26,619	19,534	25,784	73,830	0,000	0,360	868,259
	0,500	0,992	20,087	14,741	19,458	73,814	0,000	0,301	696,998
	0,400	1,092	14,097	10,345	13,655	73,791	0,000	0,242	519,762
	0,300	1,192	8,780	6,443	8,505	73,755	0,000	0,183	342,468
	0,200	1,292	4,338	3,183	4,202	73,682	0,000	0,123	176,423
	0,100	1,392	1,128	0,827	1,092	73,454	0,000	0,063	45,319
	0,095	1,398	1,000	0,734	0,969	73,425	0,000	0,060	40,019
	0,000	1,492	0,000	0,000	0,000	72,066	0,000	0,008	0,000

Tank Calibrations - 2WATERMIST1B

Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg

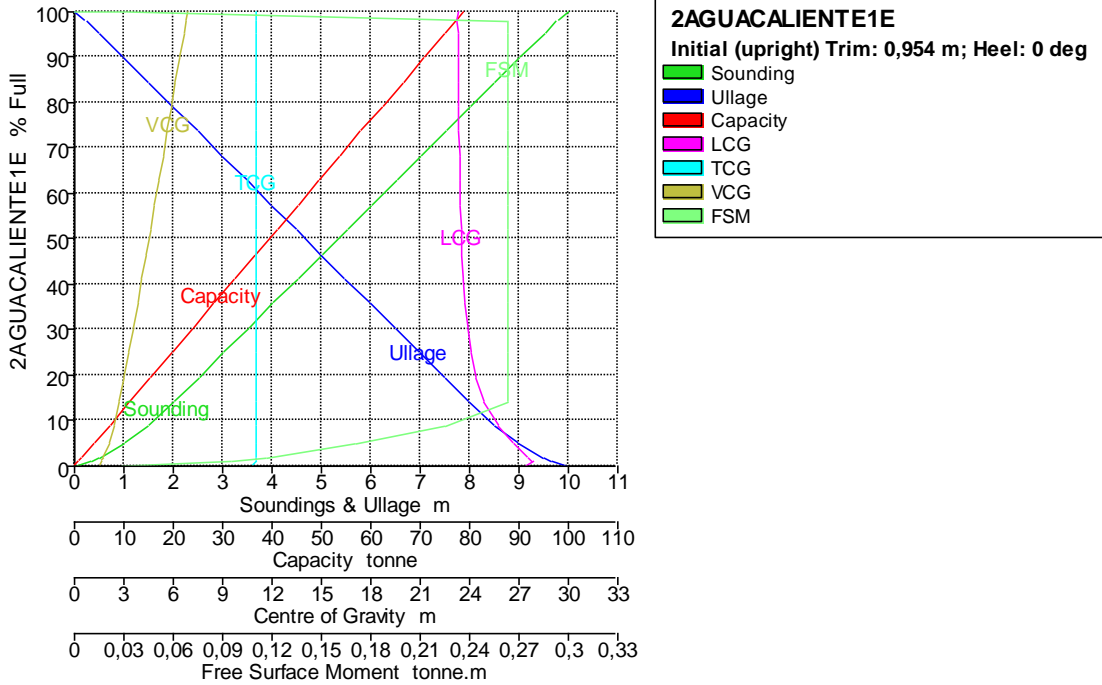


Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2WATERMIST1B	10,000	0,000	100,000	23,116	23,116	28,102	-11,004	6,506	0,000
	10,000	0,000	99,966	23,108	23,108	28,101	-11,004	6,504	0,032
	9,797	0,203	98,000	22,654	22,654	28,101	-11,004	6,406	0,072

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	9,787	0,213	97,900	22,631	22,631	28,101	-11,004	6,401	0,072
	9,500	0,500	95,024	21,966	21,966	28,101	-11,004	6,257	0,072
	9,000	1,000	90,019	20,809	20,809	28,101	-11,004	6,007	0,072
	8,500	1,500	85,013	19,652	19,652	28,101	-11,004	5,757	0,072
	8,000	2,000	80,008	18,495	18,495	28,101	-11,004	5,507	0,072
	7,500	2,500	75,002	17,338	17,338	28,101	-11,004	5,257	0,072
	7,000	3,000	69,997	16,181	16,181	28,101	-11,004	5,007	0,072
	6,500	3,500	64,991	15,023	15,023	28,101	-11,004	4,757	0,072
	6,000	4,000	59,985	13,866	13,866	28,101	-11,004	4,507	0,072
	5,500	4,500	54,980	12,709	12,709	28,101	-11,004	4,257	0,072
	5,000	5,000	49,974	11,552	11,552	28,101	-11,004	4,007	0,072
	4,500	5,500	44,969	10,395	10,395	28,101	-11,004	3,757	0,072
	4,000	6,000	39,963	9,238	9,238	28,102	-11,004	3,507	0,072
	3,500	6,500	34,958	8,081	8,081	28,102	-11,004	3,257	0,072
	3,000	7,000	29,952	6,924	6,924	28,102	-11,004	3,007	0,072
	2,500	7,500	24,946	5,767	5,767	28,102	-11,004	2,757	0,072
	2,000	8,000	19,941	4,610	4,610	28,103	-11,004	2,507	0,072
	1,500	8,500	14,935	3,452	3,452	28,104	-11,004	2,257	0,072
	1,000	9,000	9,930	2,295	2,295	28,106	-11,003	2,007	0,072
	0,500	9,500	4,924	1,138	1,138	28,113	-11,002	1,756	0,072
	0,108	9,892	1,000	0,231	0,231	28,156	-10,994	1,557	0,069
	0,000	10,000	0,034	0,008	0,008	27,301	-10,855	1,538	0,028

Tank Calibrations - 2AGUACALIENTE1E

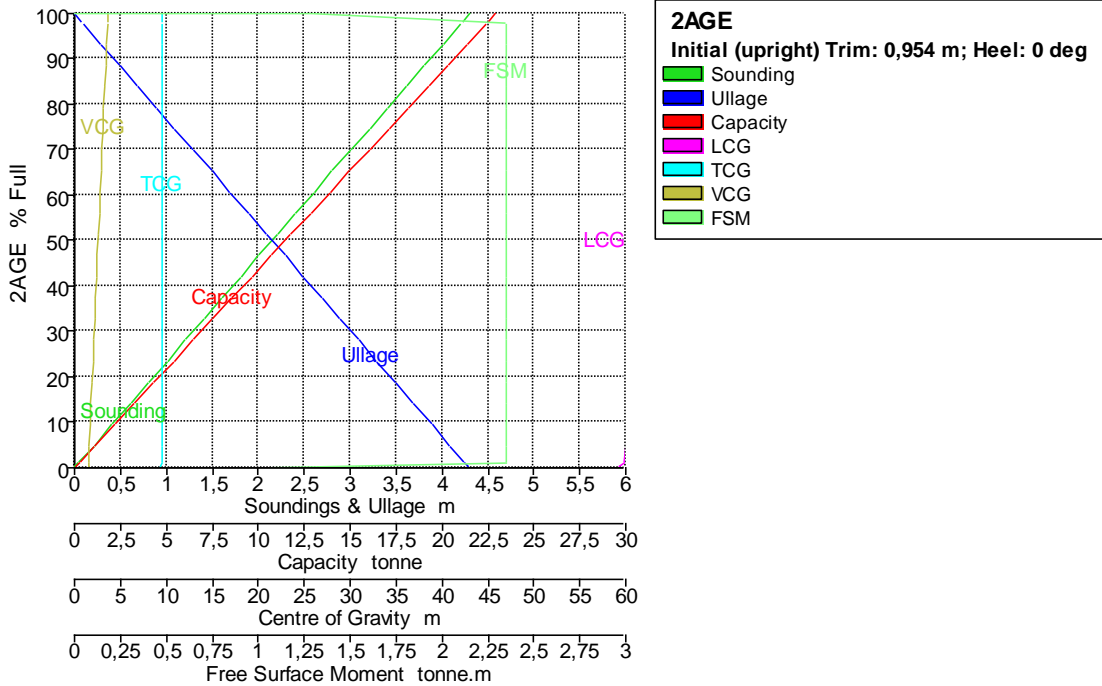
Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AGUACALIENTE1E	10,000	0,000	100,000	78,757	78,757	23,280	11,004	6,859	0,000
	10,000	0,000	99,990	78,749	78,749	23,279	11,004	6,858	0,032
	9,761	0,239	98,000	77,182	77,182	23,267	11,004	6,766	0,264
	9,752	0,248	97,900	77,103	77,103	23,268	11,004	6,761	0,264
	9,500	0,500	95,172	74,954	74,954	23,275	11,004	6,635	0,264
	9,000	1,000	89,759	70,691	70,691	23,292	11,004	6,383	0,264
	8,500	1,500	84,346	66,428	66,428	23,311	11,004	6,131	0,264
	8,000	2,000	78,933	62,165	62,165	23,332	11,004	5,880	0,264
	7,500	2,500	73,520	57,902	57,902	23,356	11,004	5,627	0,264
	7,000	3,000	68,107	53,639	53,639	23,385	11,004	5,375	0,264
	6,500	3,500	62,694	49,376	49,376	23,418	11,004	5,122	0,264
	6,000	4,000	57,282	45,113	45,113	23,457	11,003	4,869	0,264
	5,500	4,500	51,869	40,850	40,850	23,505	11,003	4,615	0,264
	5,000	5,000	46,456	36,587	36,587	23,564	11,003	4,359	0,264
	4,500	5,500	41,043	32,324	32,324	23,638	11,003	4,103	0,264
	4,000	6,000	35,630	28,061	28,061	23,735	11,003	3,845	0,264
	3,500	6,500	30,217	23,798	23,798	23,867	11,003	3,583	0,264
	3,000	7,000	24,804	19,535	19,535	24,056	11,002	3,317	0,264
	2,500	7,500	19,392	15,272	15,272	24,351	11,002	3,041	0,264
	2,000	8,000	13,979	11,009	11,009	24,874	11,000	2,746	0,264
	1,500	8,500	8,840	6,962	6,962	25,768	10,999	2,419	0,225
	1,000	9,000	4,771	3,758	3,758	26,677	10,998	2,096	0,170
	0,500	9,500	1,823	1,436	1,436	27,549	10,996	1,785	0,116
	0,311	9,689	1,000	0,788	0,788	27,858	10,995	1,672	0,095
	0,000	10,000	0,010	0,008	0,008	27,301	10,855	1,538	0,028

Tank Calibrations - 2AGE

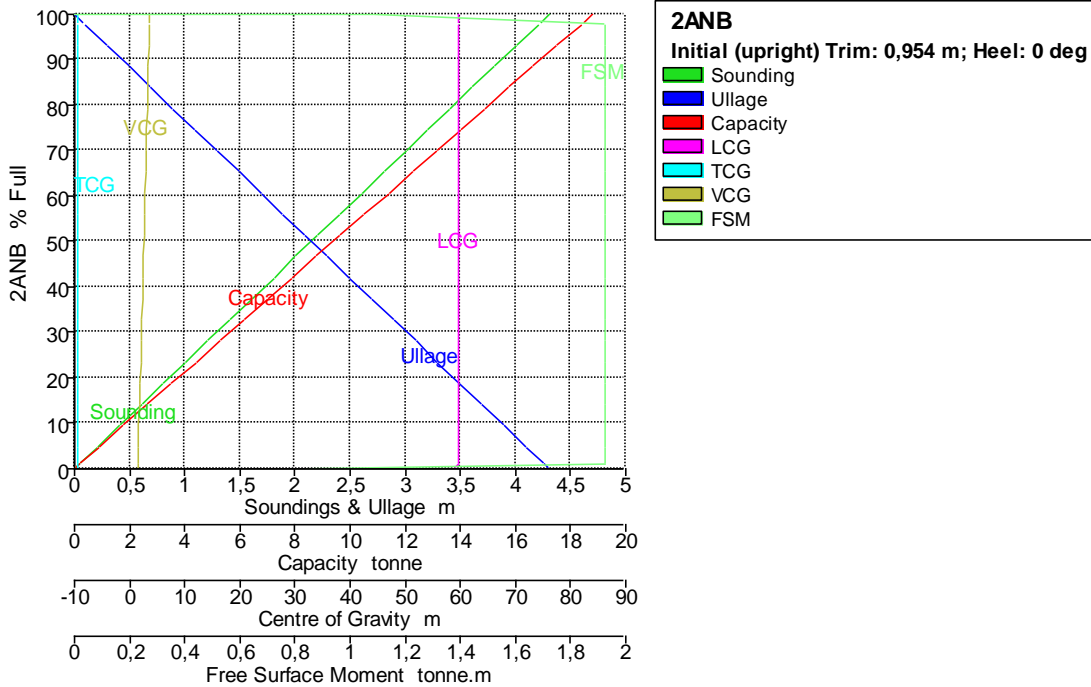
Fluid Type = Specific gravity = 1
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2AGE	4,300	0,000	100,000	22,945	22,945	59,960	9,550	3,650	0,000
	4,300	0,000	99,931	22,929	22,929	59,959	9,550	3,649	1,291
	4,214	0,086	98,000	22,486	22,486	59,959	9,550	3,607	2,352
	4,210	0,090	97,900	22,463	22,463	59,959	9,550	3,605	2,352
	4,200	0,100	97,672	22,411	22,411	59,959	9,550	3,600	2,352
	4,000	0,300	93,021	21,344	21,344	59,959	9,550	3,500	2,352
	3,800	0,500	88,370	20,276	20,276	59,959	9,550	3,400	2,352
	3,600	0,700	83,719	19,209	19,209	59,959	9,550	3,300	2,352
	3,400	0,900	79,068	18,142	18,142	59,959	9,550	3,200	2,352
	3,200	1,100	74,416	17,075	17,075	59,959	9,550	3,100	2,352
	3,000	1,300	69,765	16,008	16,008	59,959	9,550	3,000	2,352
	2,800	1,500	65,114	14,940	14,940	59,958	9,550	2,900	2,352
	2,600	1,700	60,463	13,873	13,873	59,958	9,550	2,800	2,352
	2,400	1,900	55,812	12,806	12,806	59,958	9,550	2,700	2,352
	2,200	2,100	51,161	11,739	11,739	59,958	9,550	2,600	2,352
	2,000	2,300	46,510	10,672	10,672	59,958	9,550	2,500	2,352
	1,800	2,500	41,858	9,604	9,604	59,958	9,550	2,400	2,352
	1,600	2,700	37,207	8,537	8,537	59,957	9,550	2,300	2,352
	1,400	2,900	32,556	7,470	7,470	59,957	9,550	2,200	2,352
	1,200	3,100	27,905	6,403	6,403	59,956	9,550	2,100	2,352
	1,000	3,300	23,254	5,336	5,336	59,956	9,550	2,000	2,352
	0,800	3,500	18,603	4,268	4,268	59,954	9,550	1,900	2,352
	0,600	3,700	13,951	3,201	3,201	59,953	9,550	1,800	2,352
	0,400	3,900	9,300	2,134	2,134	59,949	9,550	1,700	2,352
	0,200	4,100	4,649	1,067	1,067	59,938	9,550	1,600	2,352
	0,043	4,257	1,000	0,229	0,229	59,856	9,550	1,522	2,352
	0,000	4,300	0,066	0,015	0,015	59,184	9,446	1,541	1,062

Tank Calibrations - 2ANB

Fluid Type = Specific gravity = 1
Permeability = 100 %
Trim = 0,954 m (+ve by stern); Heel = 0 deg



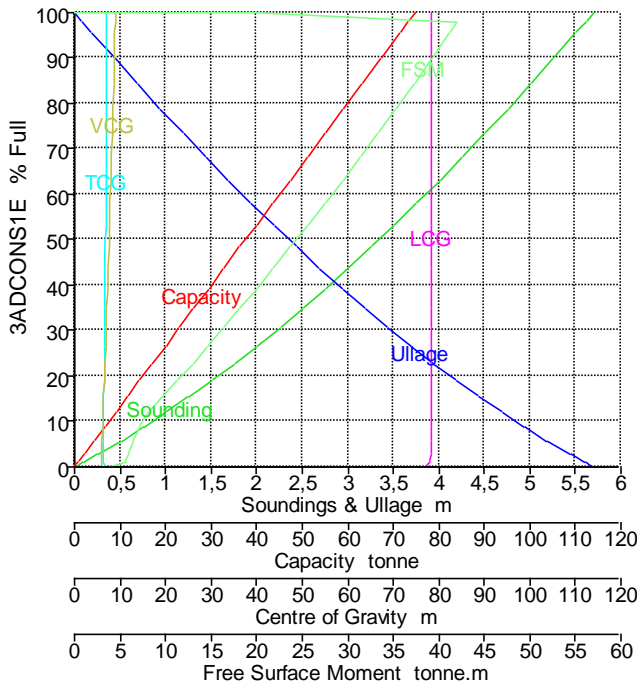
Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
2ANB	4,300	0,000	100,000	18,791	18,791	59,750	-9,550	3,650	0,000
	4,300	0,000	99,945	18,781	18,781	59,750	-9,550	3,649	1,088
	4,214	0,086	98,000	18,415	18,415	59,749	-9,550	3,607	1,927
	4,210	0,090	97,900	18,396	18,396	59,749	-9,550	3,605	1,927
	4,200	0,100	97,674	18,354	18,354	59,749	-9,550	3,600	1,927
	4,000	0,300	93,023	17,480	17,480	59,749	-9,550	3,500	1,927
	3,800	0,500	88,372	16,606	16,606	59,749	-9,550	3,400	1,927
	3,600	0,700	83,721	15,732	15,732	59,749	-9,550	3,300	1,927
	3,400	0,900	79,070	14,858	14,858	59,749	-9,550	3,200	1,927
	3,200	1,100	74,419	13,984	13,984	59,749	-9,550	3,100	1,927
	3,000	1,300	69,767	13,110	13,110	59,749	-9,550	3,000	1,927
	2,800	1,500	65,116	12,236	12,236	59,749	-9,550	2,900	1,927
	2,600	1,700	60,465	11,362	11,362	59,749	-9,550	2,800	1,927
	2,400	1,900	55,814	10,488	10,488	59,749	-9,550	2,700	1,927
	2,200	2,100	51,163	9,614	9,614	59,749	-9,550	2,600	1,927
	2,000	2,300	46,512	8,740	8,740	59,748	-9,550	2,500	1,927
	1,800	2,500	41,860	7,866	7,866	59,748	-9,550	2,400	1,927
	1,600	2,700	37,209	6,992	6,992	59,748	-9,550	2,300	1,927
	1,400	2,900	32,558	6,118	6,118	59,748	-9,550	2,200	1,927
	1,200	3,100	27,907	5,244	5,244	59,747	-9,550	2,100	1,927
	1,000	3,300	23,256	4,370	4,370	59,747	-9,550	2,000	1,927
	0,800	3,500	18,605	3,496	3,496	59,746	-9,550	1,900	1,927
	0,600	3,700	13,953	2,622	2,622	59,745	-9,550	1,800	1,927
	0,400	3,900	9,302	1,748	1,748	59,742	-9,550	1,700	1,927
	0,200	4,100	4,651	0,874	0,874	59,735	-9,550	1,600	1,927
	0,043	4,257	1,000	0,188	0,188	59,680	-9,550	1,522	1,927
	0,000	4,300	0,055	0,010	0,010	59,117	-9,337	1,580	0,839

Tank Calibrations - 3ADCONS1E

Fluid Type = AD Specific gravity = 1

Permeability = 100 %

Trim = 0,954 m (+ve by stern); Heel = 0 deg



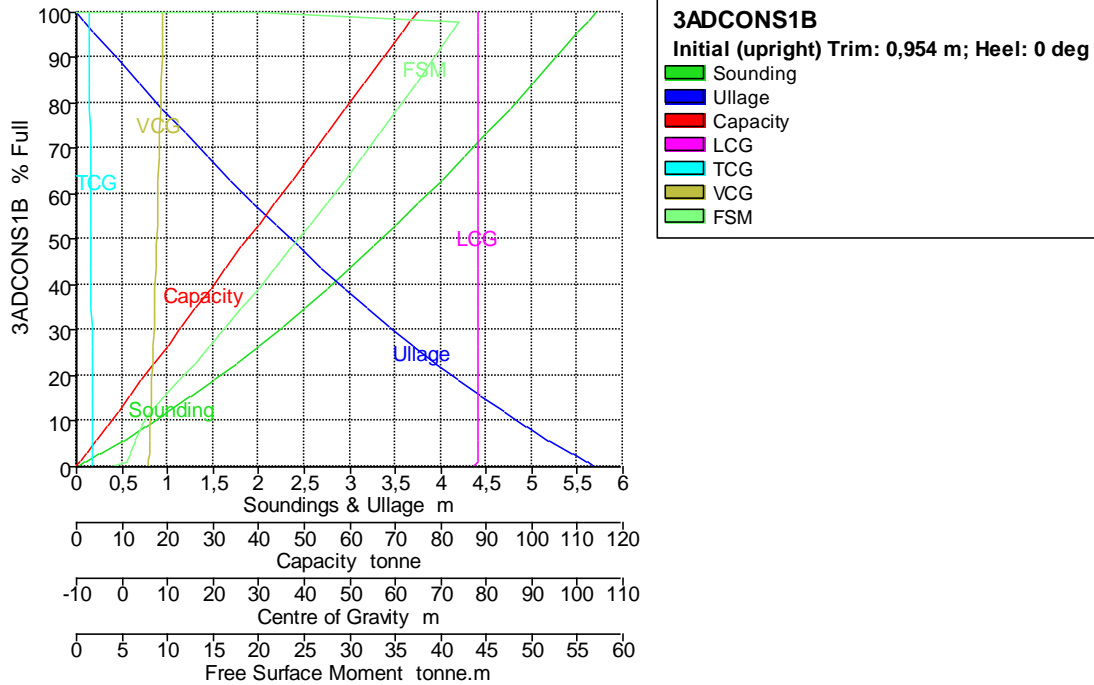
3ADCONS1E
 Initial (upright) Trim: 0,954 m; Heel: 0 deg

- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3ADCONS1E	5,700	0,000	100,000	74,866	74,866	78,328	7,156	8,995	0,000
	5,700	0,000	99,915	74,803	74,803	78,327	7,156	8,993	19,932
	5,613	0,087	98,000	73,369	73,369	78,325	7,145	8,944	42,051
	5,608	0,092	97,900	73,294	73,294	78,325	7,145	8,942	42,016
	5,500	0,200	95,419	71,436	71,436	78,324	7,131	8,879	41,153
	5,250	0,450	89,758	67,199	67,199	78,322	7,098	8,734	39,164
	5,000	0,700	84,195	63,034	63,034	78,320	7,064	8,590	37,182
	4,750	0,950	78,732	58,944	58,944	78,317	7,029	8,445	35,207
	4,500	1,200	73,373	54,931	54,931	78,315	6,994	8,300	33,242
	4,250	1,450	68,121	50,999	50,999	78,312	6,957	8,155	31,287
	4,000	1,700	62,980	47,151	47,151	78,310	6,920	8,011	29,345
	3,750	1,950	57,955	43,388	43,388	78,307	6,882	7,866	27,419
	3,500	2,200	53,049	39,716	39,716	78,304	6,843	7,722	25,510
	3,250	2,450	48,269	36,137	36,137	78,301	6,803	7,578	23,620
	3,000	2,700	43,618	32,655	32,655	78,297	6,761	7,434	21,753
	2,750	2,950	39,104	29,275	29,275	78,293	6,720	7,291	19,912
	2,500	3,200	34,732	26,002	26,002	78,289	6,677	7,148	18,100
	2,250	3,450	30,509	22,841	22,841	78,285	6,633	7,006	16,321
	2,000	3,700	26,444	19,797	19,797	78,281	6,589	6,864	14,579
	1,750	3,950	22,545	16,879	16,879	78,276	6,545	6,723	12,879
	1,500	4,200	18,822	14,092	14,092	78,271	6,503	6,584	11,226
	1,250	4,450	15,288	11,445	11,445	78,266	6,463	6,447	9,627
	1,000	4,700	11,955	8,950	8,950	78,260	6,429	6,313	8,089
	0,750	4,950	8,809	6,595	6,595	78,255	6,404	6,182	7,143
	0,500	5,200	5,776	4,324	4,324	78,246	6,381	6,054	6,489
	0,250	5,450	2,848	2,132	2,132	78,227	6,361	5,927	5,901
	0,088	5,612	1,000	0,749	0,749	78,165	6,360	5,845	5,551
	0,000	5,700	0,054	0,040	0,040	77,322	6,514	5,803	3,722

Tank Calibrations - 3ADCONS1B

Fluid Type = AD Specific gravity = 1
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg

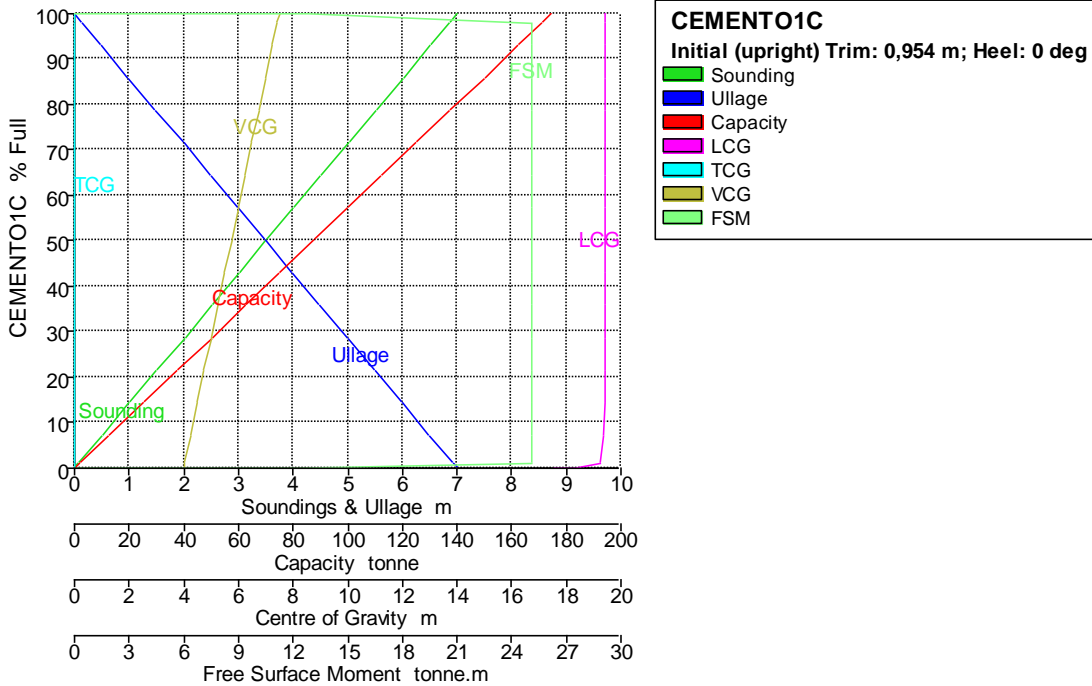


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
3ADCONS1B	5,700	0,000	100,000	74,866	74,866	78,328	-7,156	8,995	0,000
	5,700	0,000	99,915	74,803	74,803	78,327	-7,156	8,993	19,932
	5,613	0,087	98,000	73,369	73,369	78,325	-7,145	8,944	42,051
	5,608	0,092	97,900	73,294	73,294	78,325	-7,145	8,942	42,016
	5,500	0,200	95,419	71,436	71,436	78,324	-7,131	8,879	41,153
	5,250	0,450	89,758	67,199	67,199	78,322	-7,098	8,734	39,164
	5,000	0,700	84,195	63,034	63,034	78,320	-7,064	8,590	37,182
	4,750	0,950	78,732	58,944	58,944	78,317	-7,029	8,445	35,207
	4,500	1,200	73,373	54,931	54,931	78,315	-6,994	8,300	33,242
	4,250	1,450	68,121	50,999	50,999	78,312	-6,957	8,155	31,287
	4,000	1,700	62,980	47,151	47,151	78,310	-6,920	8,011	29,345
	3,750	1,950	57,955	43,388	43,388	78,307	-6,882	7,866	27,419
	3,500	2,200	53,049	39,716	39,716	78,304	-6,843	7,722	25,510
	3,250	2,450	48,269	36,137	36,137	78,301	-6,803	7,578	23,620
	3,000	2,700	43,618	32,655	32,655	78,297	-6,761	7,434	21,753
	2,750	2,950	39,104	29,275	29,275	78,293	-6,720	7,291	19,912
	2,500	3,200	34,732	26,002	26,002	78,289	-6,677	7,148	18,100
	2,250	3,450	30,509	22,841	22,841	78,285	-6,633	7,006	16,321
	2,000	3,700	26,444	19,797	19,797	78,281	-6,589	6,864	14,579
	1,750	3,950	22,545	16,879	16,879	78,276	-6,545	6,723	12,879
	1,500	4,200	18,822	14,092	14,092	78,271	-6,503	6,584	11,226
	1,250	4,450	15,288	11,445	11,445	78,266	-6,463	6,447	9,627
	1,000	4,700	11,955	8,950	8,950	78,260	-6,429	6,313	8,089
	0,750	4,950	8,809	6,595	6,595	78,255	-6,404	6,182	7,143
	0,500	5,200	5,776	4,324	4,324	78,246	-6,381	6,054	6,489
	0,250	5,450	2,848	2,132	2,132	78,227	-6,361	5,927	5,901
	0,088	5,612	1,000	0,749	0,749	78,165	-6,360	5,845	5,551

Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
	0,000	5,700	0,054	0,040	0,040	77,322	-6,514	5,803	3,722

Tank Calibrations - CEMENTO1C

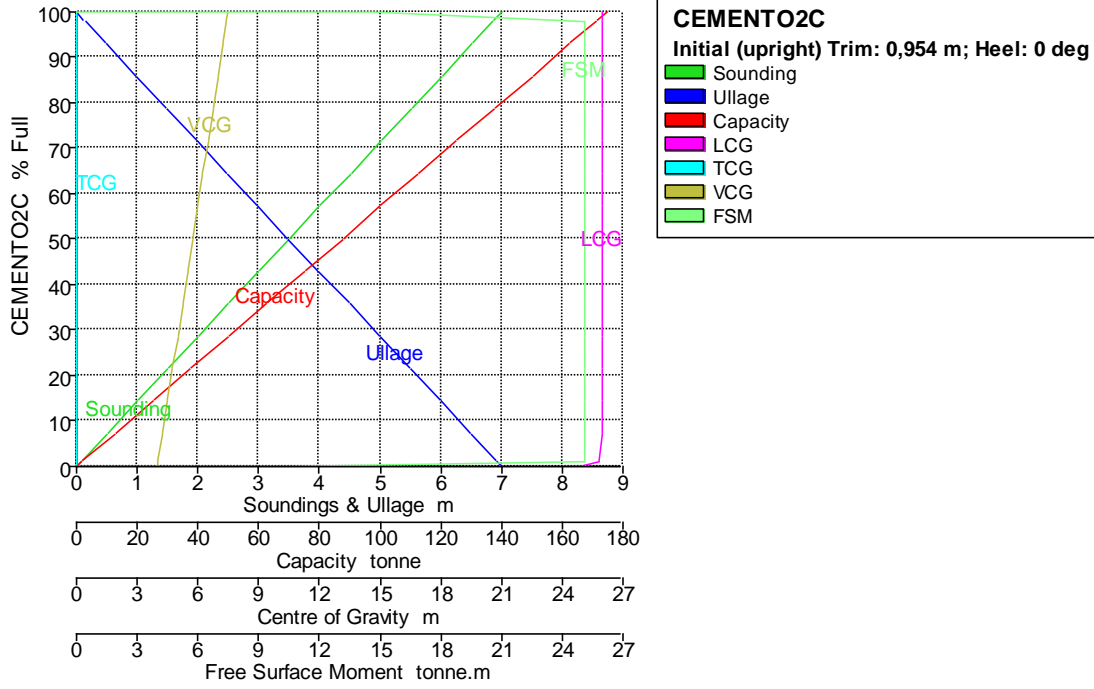
Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO1C	7,000	0,000	100,000	87,245	174,490	19,405	0,000	7,500	0,000
	7,000	0,000	99,945	87,197	174,394	19,405	0,000	7,498	12,874
	6,859	0,141	98,000	85,500	171,000	19,404	0,000	7,430	25,115
	6,852	0,148	97,900	85,413	170,826	19,404	0,000	7,427	25,115
	6,500	0,500	92,867	81,022	162,043	19,404	0,000	7,250	25,115
	6,000	1,000	85,724	74,790	149,580	19,404	0,000	7,000	25,115
	5,500	1,500	78,581	68,558	137,116	19,404	0,000	6,750	25,115
	5,000	2,000	71,438	62,326	124,653	19,403	0,000	6,500	25,115
	4,500	2,500	64,295	56,094	112,189	19,403	0,000	6,250	25,115
	4,000	3,000	57,153	49,863	99,725	19,403	0,000	6,000	25,115
	3,500	3,500	50,010	43,631	87,262	19,403	0,000	5,750	25,115
	3,000	4,000	42,867	37,399	74,798	19,402	0,000	5,500	25,115
	2,500	4,500	35,724	31,167	62,335	19,401	0,000	5,250	25,115
	2,000	5,000	28,581	24,936	49,871	19,400	0,000	5,000	25,115
	1,500	5,500	21,438	18,704	37,408	19,399	0,000	4,750	25,115
	1,000	6,000	14,295	12,472	24,944	19,396	0,000	4,500	25,115
	0,500	6,500	7,153	6,240	12,481	19,386	0,000	4,250	25,115
	0,069	6,931	1,000	0,872	1,745	19,266	0,000	4,036	25,115
	0,000	7,000	0,065	0,057	0,113	18,268	0,000	4,011	12,241
	0,000	7,000	0,000	0,000	0,000	17,469	0,000	4,000	0,000

Tank Calibrations - CEMENTO2C

Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg

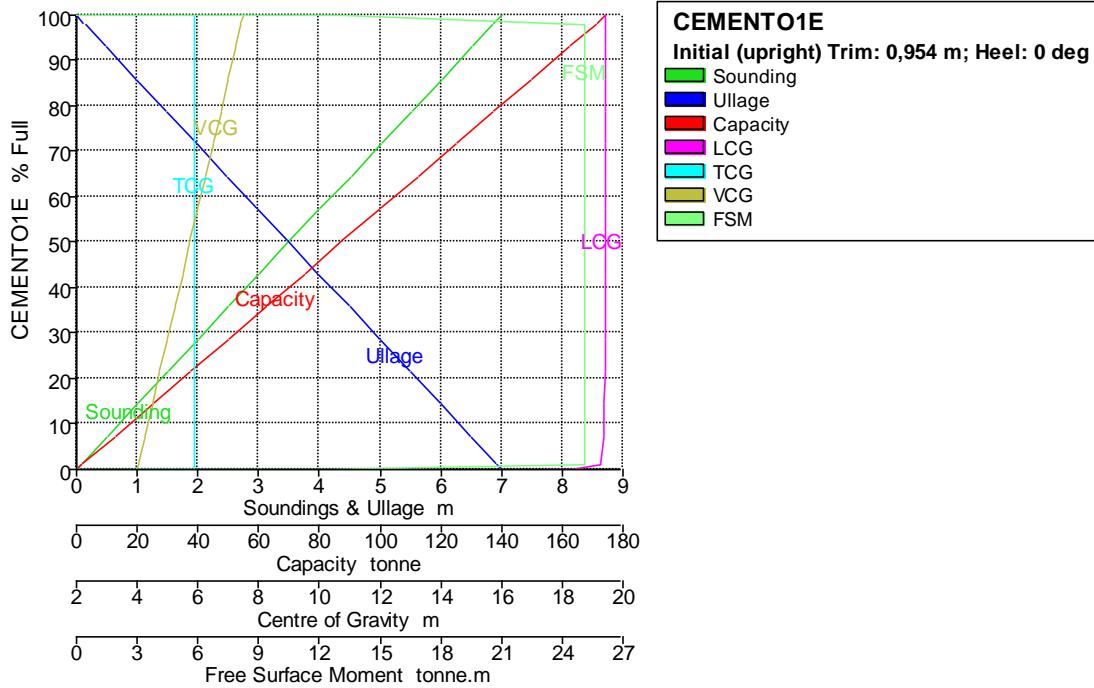


Tank Name	Soundin g m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO2C	7,000	0,000	100,000	87,416	174,832	25,999	0,000	7,500	0,000
	7,000	0,000	99,933	87,358	174,715	25,998	0,000	7,498	14,633
	6,861	0,139	98,000	85,667	171,335	25,997	0,000	7,430	25,114
	6,854	0,146	97,900	85,580	171,160	25,997	0,000	7,427	25,114
	6,500	0,500	92,844	81,161	162,321	25,997	0,000	7,250	25,114
	6,000	1,000	85,701	74,917	149,833	25,997	0,000	7,000	25,114
	5,500	1,500	78,559	68,673	137,345	25,997	0,000	6,750	25,114
	5,000	2,000	71,416	62,429	124,857	25,997	0,000	6,500	25,114
	4,500	2,500	64,273	56,185	112,369	25,997	0,000	6,250	25,114
	4,000	3,000	57,130	49,941	99,881	25,996	0,000	6,000	25,114
	3,500	3,500	49,987	43,697	87,393	25,996	0,000	5,750	25,114
	3,000	4,000	42,844	37,453	74,905	25,995	0,000	5,500	25,114
	2,500	4,500	35,701	31,209	62,417	25,995	0,000	5,250	25,114
	2,000	5,000	28,559	24,965	49,929	25,994	0,000	5,000	25,114
	1,500	5,500	21,416	18,721	37,441	25,992	0,000	4,750	25,114
	1,000	6,000	14,273	12,477	24,953	25,989	0,000	4,500	25,114
	0,500	6,500	7,130	6,233	12,466	25,979	0,000	4,250	25,114
	0,071	6,929	1,000	0,874	1,748	25,858	0,000	4,036	25,114
	0,000	7,000	0,054	0,047	0,094	24,794	0,000	4,011	10,481
	0,000	7,000	0,000	0,000	0,000	24,014	0,000	4,000	0,000

Tank Calibrations - CEMENTO1E

Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %

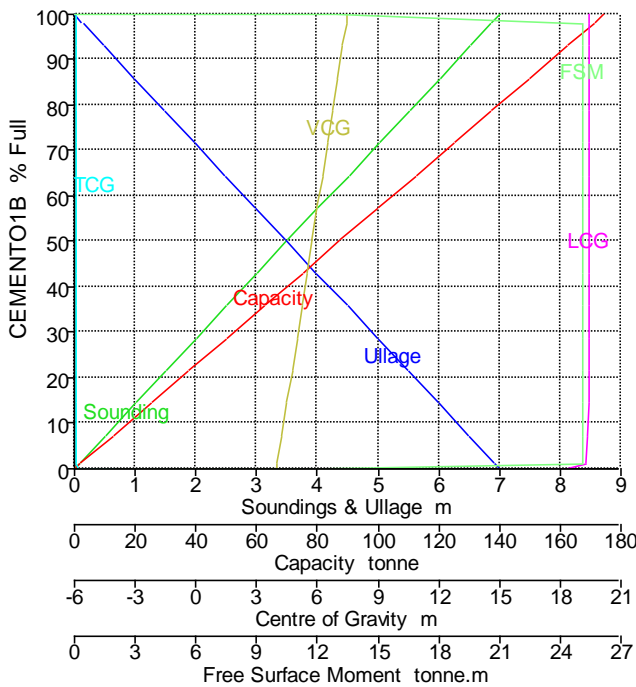
Trim = 0,954 m (+ve by stern); Heel = 0 deg



Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO1E	7,000	0,000	100,000	87,245	174,490	19,405	5,900	7,500	0,000
	7,000	0,000	99,945	87,197	174,394	19,405	5,900	7,498	12,874
	6,859	0,141	98,000	85,500	171,000	19,404	5,900	7,430	25,115
	6,852	0,148	97,900	85,413	170,826	19,404	5,900	7,427	25,115
	6,500	0,500	92,867	81,022	162,043	19,404	5,900	7,250	25,115
	6,000	1,000	85,724	74,790	149,580	19,404	5,900	7,000	25,115
	5,500	1,500	78,581	68,558	137,116	19,404	5,900	6,750	25,115
	5,000	2,000	71,438	62,326	124,653	19,403	5,900	6,500	25,115
	4,500	2,500	64,295	56,094	112,189	19,403	5,900	6,250	25,115
	4,000	3,000	57,153	49,863	99,725	19,403	5,900	6,000	25,115
	3,500	3,500	50,010	43,631	87,262	19,403	5,900	5,750	25,115
	3,000	4,000	42,867	37,399	74,798	19,402	5,900	5,500	25,115
	2,500	4,500	35,724	31,167	62,335	19,401	5,900	5,250	25,115
	2,000	5,000	28,581	24,936	49,871	19,400	5,900	5,000	25,115
	1,500	5,500	21,438	18,704	37,408	19,399	5,900	4,750	25,115
	1,000	6,000	14,295	12,472	24,944	19,396	5,900	4,500	25,115
	0,500	6,500	7,153	6,240	12,481	19,386	5,900	4,250	25,115
	0,069	6,931	1,000	0,872	1,745	19,266	5,900	4,036	25,115
	0,000	7,000	0,065	0,057	0,113	18,268	5,870	4,011	12,241
	0,000	7,000	0,000	0,000	0,000	17,469	3,933	4,000	0,000

Tank Calibrations - CEMENTO1B

Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



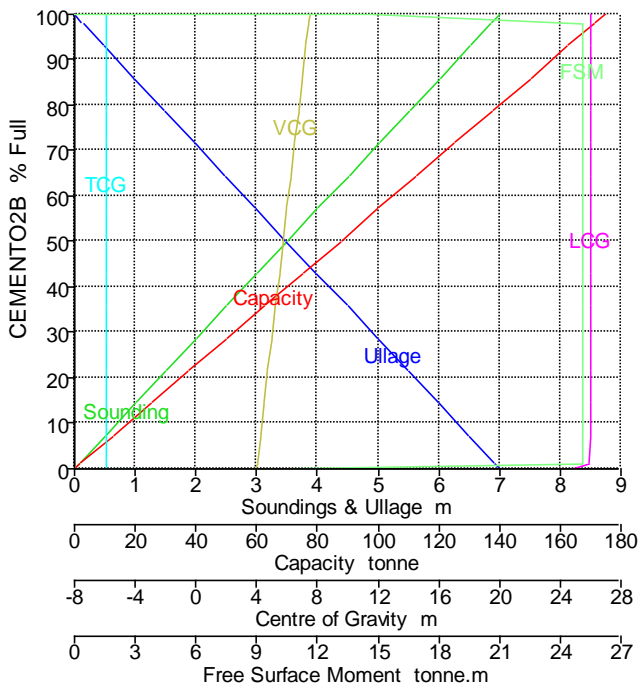
CEMENTO1B
 Initial (upright) Trim: 0,954 m; Heel: 0 deg

- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO1B	7,000	0,000	100,000	87,245	174,490	19,405	-5,900	7,500	0,000
	7,000	0,000	99,945	87,197	174,394	19,405	-5,900	7,498	12,874
	6,859	0,141	98,000	85,500	171,000	19,404	-5,900	7,430	25,115
	6,852	0,148	97,900	85,413	170,826	19,404	-5,900	7,427	25,115
	6,500	0,500	92,867	81,022	162,043	19,404	-5,900	7,250	25,115
	6,000	1,000	85,724	74,790	149,580	19,404	-5,900	7,000	25,115
	5,500	1,500	78,581	68,558	137,116	19,404	-5,900	6,750	25,115
	5,000	2,000	71,438	62,326	124,653	19,403	-5,900	6,500	25,115
	4,500	2,500	64,295	56,094	112,189	19,403	-5,900	6,250	25,115
	4,000	3,000	57,153	49,863	99,725	19,403	-5,900	6,000	25,115
	3,500	3,500	50,010	43,631	87,262	19,403	-5,900	5,750	25,115
	3,000	4,000	42,867	37,399	74,798	19,402	-5,900	5,500	25,115
	2,500	4,500	35,724	31,167	62,335	19,401	-5,900	5,250	25,115
	2,000	5,000	28,581	24,936	49,871	19,400	-5,900	5,000	25,115
	1,500	5,500	21,438	18,704	37,408	19,399	-5,900	4,750	25,115
	1,000	6,000	14,295	12,472	24,944	19,396	-5,900	4,500	25,115
	0,500	6,500	7,153	6,240	12,481	19,386	-5,900	4,250	25,115
	0,069	6,931	1,000	0,872	1,745	19,266	-5,900	4,036	25,115
	0,000	7,000	0,065	0,057	0,113	18,268	-5,870	4,011	12,241
	0,000	7,000	0,000	0,000	0,000	17,469	-3,933	4,000	0,000

Tank Calibrations - CEMENTO2B

Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



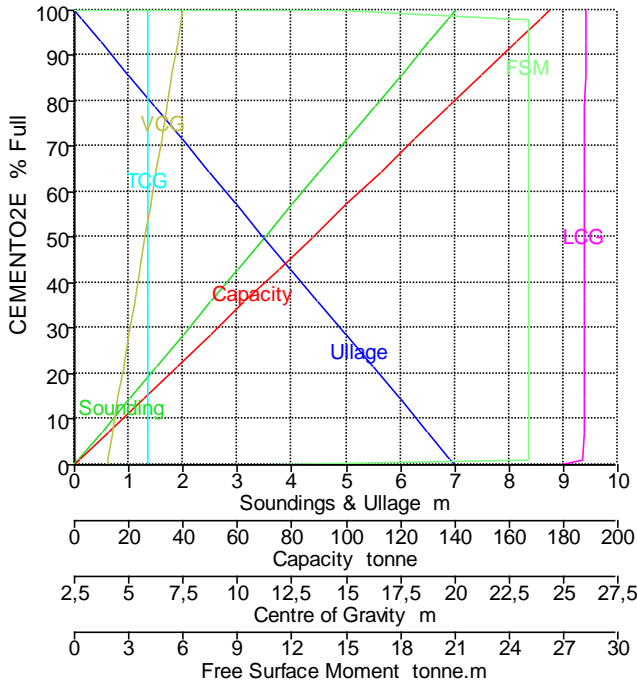
CEMENTO2B
 Initial (upright) Trim: 0,954 m; Heel: 0 deg

- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO2B	7,000	0,000	100,000	87,416	174,832	25,999	-5,900	7,500	0,000
	7,000	0,000	99,933	87,358	174,715	25,998	-5,900	7,498	14,633
	6,861	0,139	98,000	85,667	171,335	25,997	-5,900	7,430	25,114
	6,854	0,146	97,900	85,580	171,160	25,997	-5,900	7,427	25,114
	6,500	0,500	92,844	81,161	162,321	25,997	-5,900	7,250	25,114
	6,000	1,000	85,701	74,917	149,833	25,997	-5,900	7,000	25,114
	5,500	1,500	78,559	68,673	137,345	25,997	-5,900	6,750	25,114
	5,000	2,000	71,416	62,429	124,857	25,997	-5,900	6,500	25,114
	4,500	2,500	64,273	56,185	112,369	25,997	-5,900	6,250	25,114
	4,000	3,000	57,130	49,941	99,881	25,996	-5,900	6,000	25,114
	3,500	3,500	49,987	43,697	87,393	25,996	-5,900	5,750	25,114
	3,000	4,000	42,844	37,453	74,905	25,995	-5,900	5,500	25,114
	2,500	4,500	35,701	31,209	62,417	25,995	-5,900	5,250	25,114
	2,000	5,000	28,559	24,965	49,929	25,994	-5,900	5,000	25,114
	1,500	5,500	21,416	18,721	37,441	25,992	-5,900	4,750	25,114
	1,000	6,000	14,273	12,477	24,953	25,989	-5,900	4,500	25,114
	0,500	6,500	7,130	6,233	12,466	25,979	-5,900	4,250	25,114
	0,071	6,929	1,000	0,874	1,748	25,858	-5,900	4,036	25,114
	0,000	7,000	0,054	0,047	0,094	24,794	-5,864	4,011	10,481
	0,000	7,000	0,000	0,000	0,000	24,014	-3,933	4,000	0,000

Tank Calibrations - CEMENTO2E

Fluid Type = Cemento Specific gravity = 2
 Permeability = 100 %
 Trim = 0,954 m (+ve by stern); Heel = 0 deg



CEMENTO2E
 Initial (upright) Trim: 0,954 m; Heel: 0 deg

- █ Sounding
- █ Ullage
- █ Capacity
- █ LCG
- █ TCG
- █ VCG
- █ FSM

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
CEMENTO2E	7,000	0,000	100,000	87,416	174,832	25,999	5,900	7,500	0,000
	7,000	0,000	99,933	87,358	174,715	25,998	5,900	7,498	14,633
	6,861	0,139	98,000	85,667	171,335	25,997	5,900	7,430	25,114
	6,854	0,146	97,900	85,580	171,160	25,997	5,900	7,427	25,114
	6,500	0,500	92,844	81,161	162,321	25,997	5,900	7,250	25,114
	6,000	1,000	85,701	74,917	149,833	25,997	5,900	7,000	25,114
	5,500	1,500	78,559	68,673	137,345	25,997	5,900	6,750	25,114
	5,000	2,000	71,416	62,429	124,857	25,997	5,900	6,500	25,114
	4,500	2,500	64,273	56,185	112,369	25,997	5,900	6,250	25,114
	4,000	3,000	57,130	49,941	99,881	25,996	5,900	6,000	25,114
	3,500	3,500	49,987	43,697	87,393	25,996	5,900	5,750	25,114
	3,000	4,000	42,844	37,453	74,905	25,995	5,900	5,500	25,114
	2,500	4,500	35,701	31,209	62,417	25,995	5,900	5,250	25,114
	2,000	5,000	28,559	24,965	49,929	25,994	5,900	5,000	25,114
	1,500	5,500	21,416	18,721	37,441	25,992	5,900	4,750	25,114
	1,000	6,000	14,273	12,477	24,953	25,989	5,900	4,500	25,114
	0,500	6,500	7,130	6,233	12,466	25,979	5,900	4,250	25,114
	0,071	6,929	1,000	0,874	1,748	25,858	5,900	4,036	25,114
	0,000	7,000	0,054	0,047	0,094	24,794	5,864	4,011	10,481
	0,000	7,000	0,000	0,000	0,000	24,014	3,933	4,000	0,000