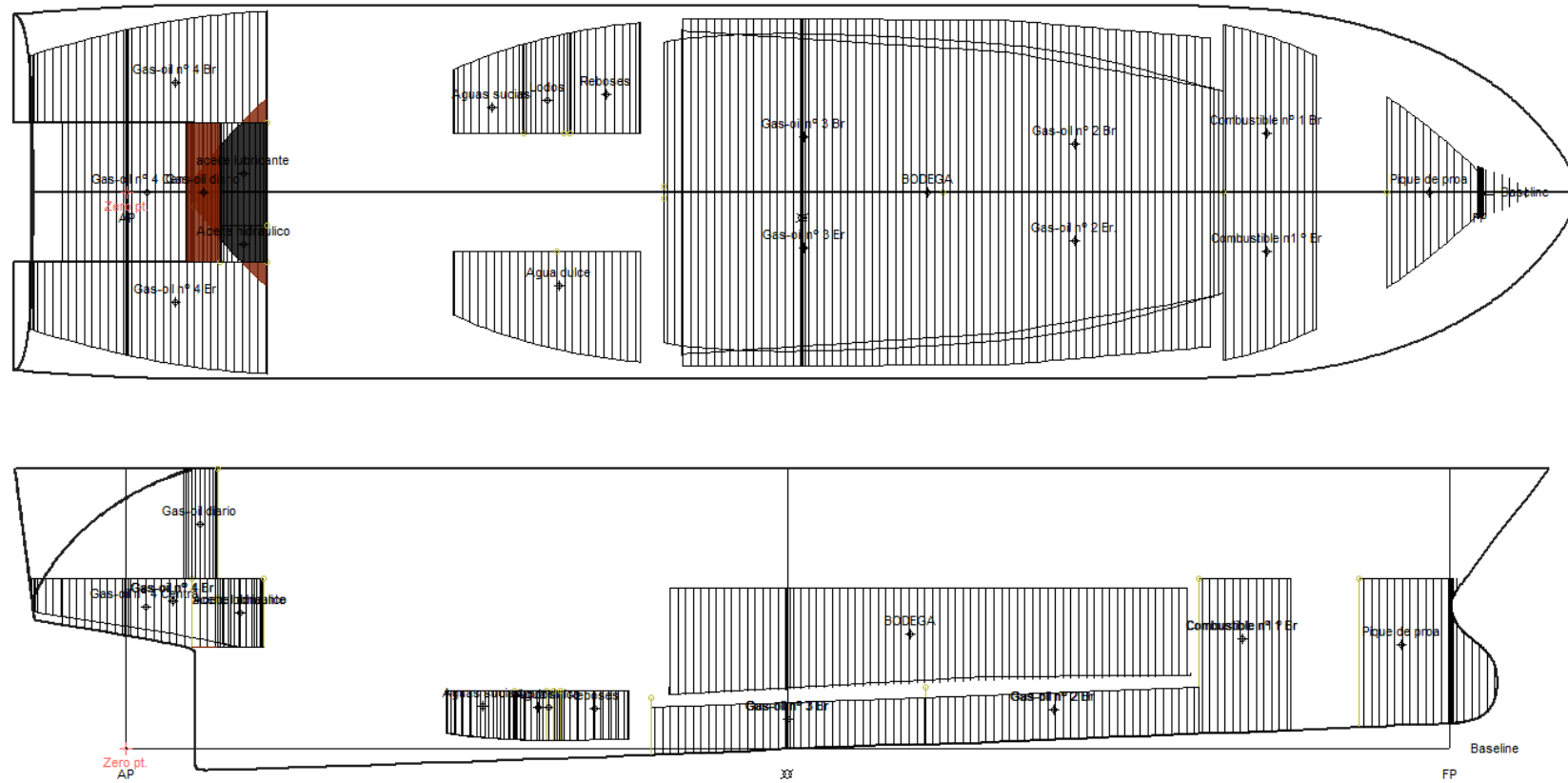


Anexo II. Calibración de tanques.



Tank Calibrations - PFC_ARRASTRERO_GRAN_SOL

Stability 20.00.03.9, build: 9

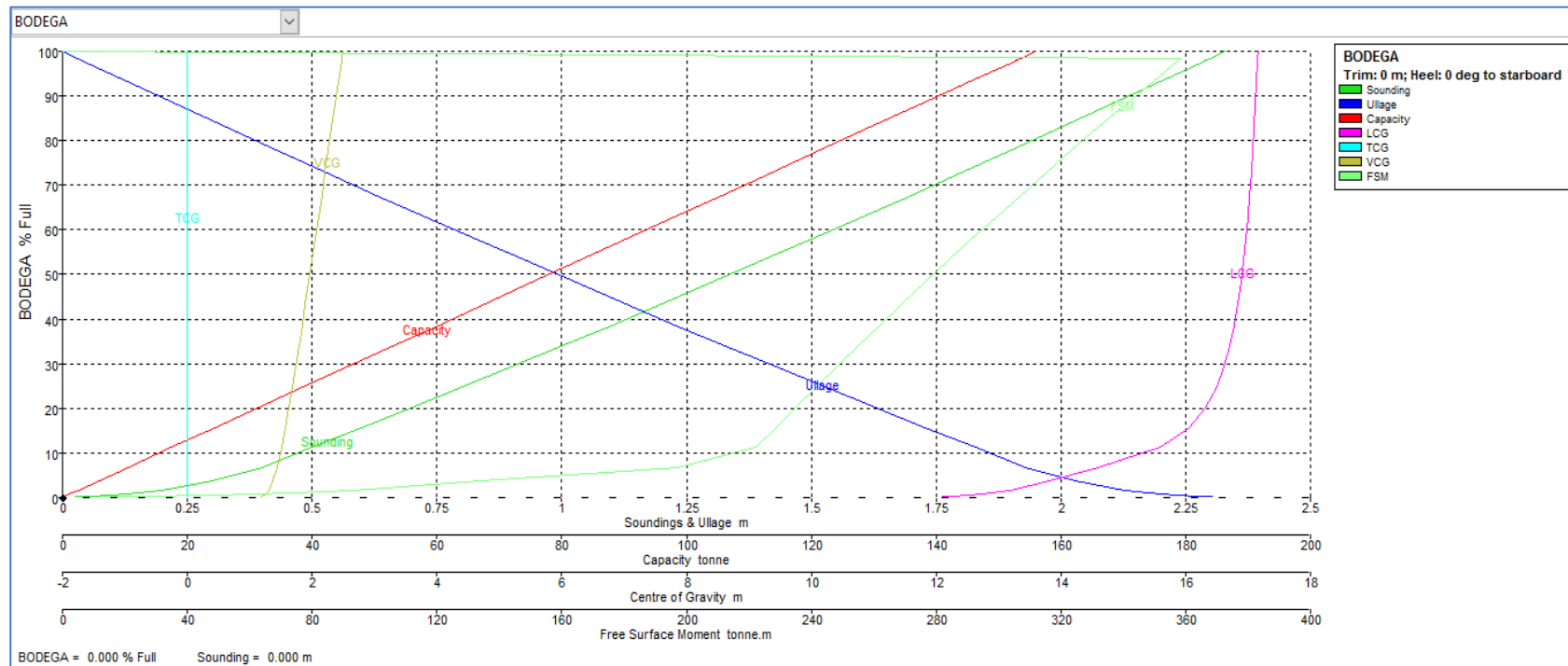
Tank Calibrations - BODEGA

Fluid Type = Specific gravity = 0.8

Permeability = 100 %

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

Tank Name	Sounding m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
BODEGA	2.329	0.000	100.000	156.026	124.821	17.161	0.000	2.489	0.000
	2.300	0.029	98.493	153.675	122.940	17.156	0.000	2.474	286.870
	2.291	0.038	98.000	152.905	122.324	17.154	0.000	2.469	286.186
	2.289	0.040	97.900	152.749	122.199	17.154	0.000	2.468	286.048
	2.200	0.129	93.253	145.498	116.399	17.138	0.000	2.421	279.644
	2.100	0.229	88.058	137.394	109.915	17.119	0.000	2.368	272.567
	2.000	0.329	82.910	129.361	103.489	17.099	0.000	2.315	265.636
	1.900	0.429	77.807	121.400	97.120	17.077	0.000	2.262	258.849
	1.800	0.529	72.751	113.510	90.808	17.053	0.000	2.209	252.205
	1.700	0.629	67.740	105.692	84.553	17.027	0.000	2.156	245.702
	1.600	0.729	62.775	97.945	78.356	16.998	0.000	2.103	239.338
	1.500	0.829	57.856	90.270	72.216	16.966	0.000	2.051	233.111
	1.400	0.929	52.983	82.667	66.134	16.929	0.000	1.998	227.019
	1.300	1.029	48.156	75.135	60.108	16.887	0.000	1.946	221.062
	1.200	1.129	43.374	67.675	54.140	16.838	0.000	1.893	215.236
	1.100	1.229	38.639	60.286	48.229	16.779	0.000	1.841	209.540
	1.000	1.329	33.949	52.969	42.375	16.707	0.000	1.788	203.972
	0.900	1.429	29.305	45.724	36.579	16.615	0.000	1.735	198.531
	0.800	1.529	24.707	38.550	30.840	16.493	0.000	1.682	193.214
	0.700	1.629	20.155	31.447	25.158	16.321	0.000	1.627	188.021
	0.600	1.729	15.649	24.416	19.533	16.058	0.000	1.571	182.948
	0.500	1.829	11.188	17.456	13.965	15.594	0.000	1.511	177.995
	0.400	1.929	6.809	10.624	8.499	14.588	0.000	1.440	157.637
	0.300	2.029	3.781	5.900	4.720	13.827	0.000	1.371	107.178
	0.200	2.129	1.699	2.651	2.121	13.193	0.000	1.305	74.678
	0.153	2.176	1.000	1.560	1.248	12.892	0.000	1.274	58.472
	0.100	2.229	0.430	0.670	0.536	12.550	0.000	1.239	38.873
	0.000	2.329	0.000	0.000	0.000	11.959	0.000	1.172	0.000



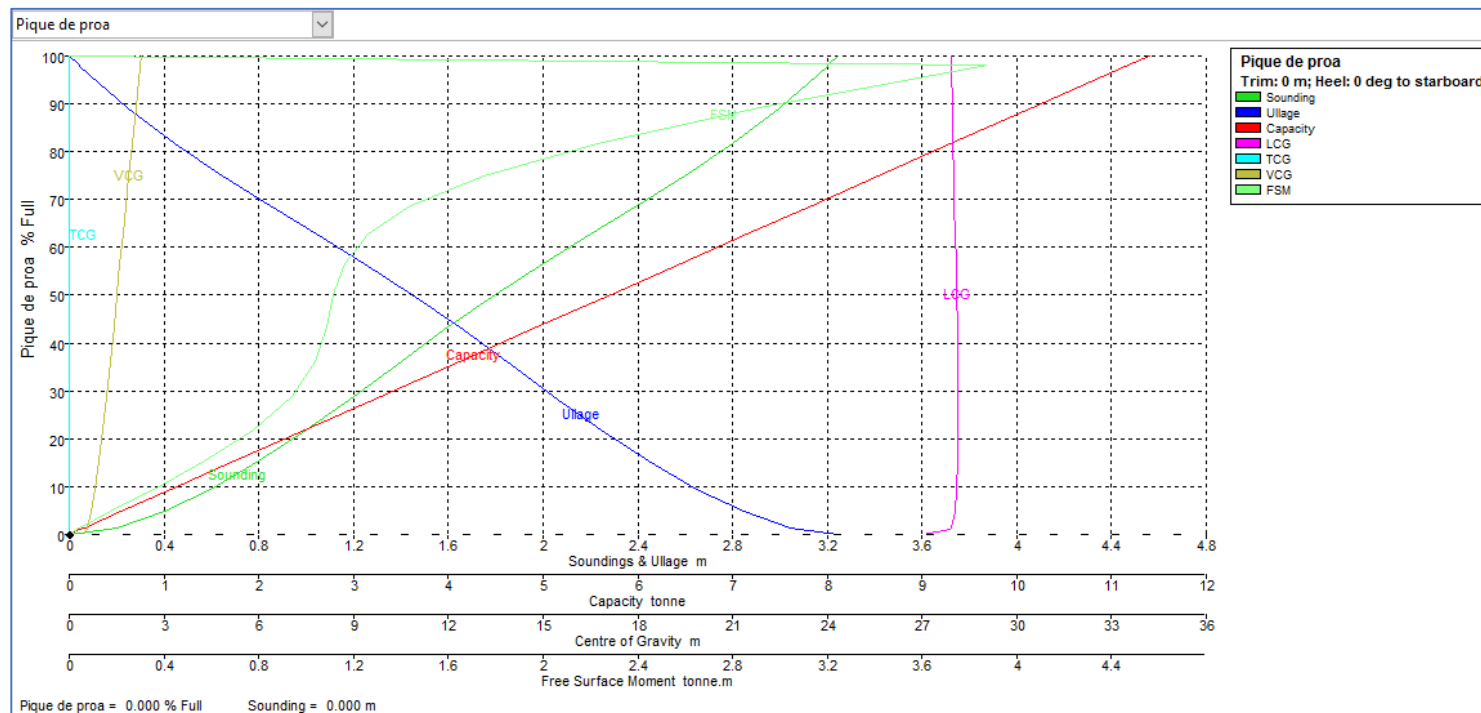
Tank Calibrations - Pique de proa

Fluid Type = Water Ballast Specific gravity = 1.025

Permeability = 100 %

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

Tank Name	Sounding m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Pique de proa	3.246	0.000	100.000	11.118	11.396	27.933	0.000	2.268	0.000
	3.203	0.042	98.000	10.896	11.168	27.935	0.000	2.239	3.868
	3.201	0.045	97.900	10.884	11.157	27.935	0.000	2.238	3.856
	3.200	0.046	97.844	10.878	11.150	27.935	0.000	2.237	3.850
	3.000	0.246	89.183	9.915	10.163	27.949	0.000	2.109	2.916
	2.800	0.446	81.626	9.075	9.302	27.968	0.000	1.993	2.228
	2.600	0.646	74.932	8.331	8.539	27.992	0.000	1.889	1.749
	2.400	0.846	68.758	7.644	7.836	28.019	0.000	1.794	1.440
	2.200	1.046	62.751	6.977	7.151	28.047	0.000	1.702	1.260
	2.000	1.246	56.636	6.297	6.454	28.075	0.000	1.610	1.163
	1.800	1.446	50.201	5.581	5.721	28.100	0.000	1.515	1.114
	1.600	1.646	43.347	4.819	4.940	28.119	0.000	1.414	1.085
	1.400	1.846	36.160	4.020	4.121	28.130	0.000	1.306	1.040
	1.200	2.046	28.887	3.212	3.292	28.134	0.000	1.194	0.941
	1.000	2.246	21.810	2.425	2.485	28.130	0.000	1.076	0.775
	0.800	2.446	15.241	1.694	1.737	28.116	0.000	0.956	0.568
	0.600	2.646	9.460	1.052	1.078	28.092	0.000	0.833	0.359
	0.400	2.846	4.750	0.528	0.541	28.049	0.000	0.709	0.172
	0.200	3.046	1.433	0.159	0.163	27.948	0.000	0.586	0.046
	0.164	3.082	1.000	0.111	0.114	27.900	0.000	0.564	0.033
	0.000	3.246	0.000	0.000	0.000	27.036	0.000	0.454	0.000



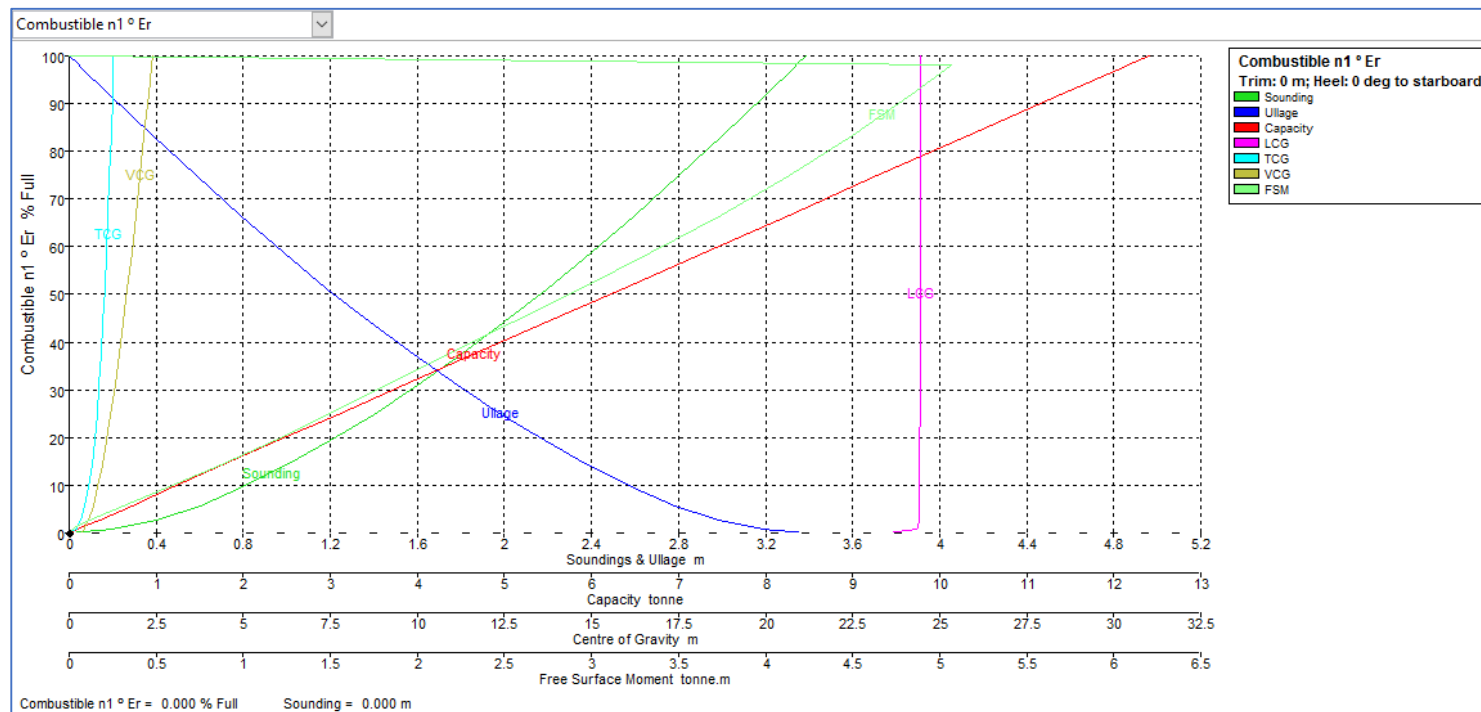
Tank Calibrations - Combustible n1 ° Er

Fluid Type = Diesel Specific gravity = 0.84

Permeability = 100 %

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

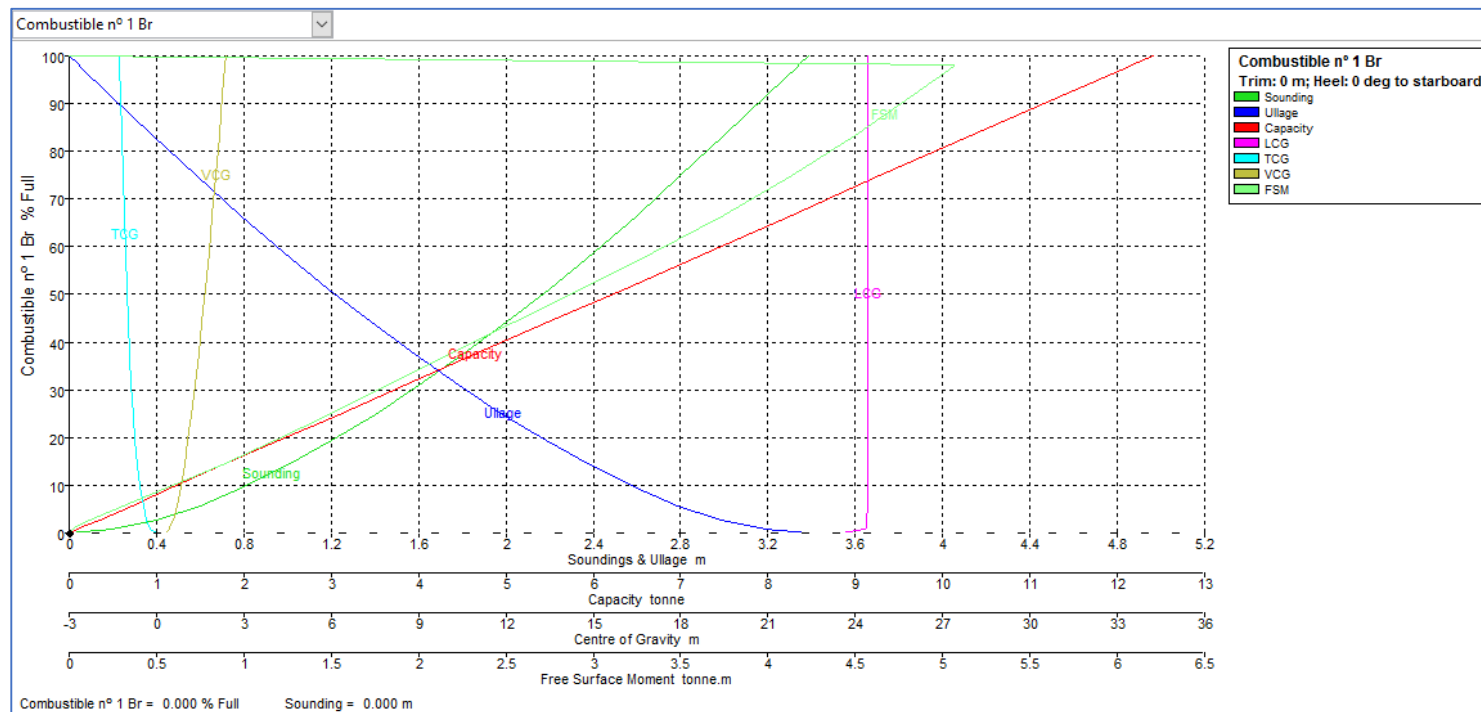
Tank Name	Sounding m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Combustible n1 ° Er	3.384	0.000	100.000	14.767	12.404	24.445	1.273	2.383	0.000
	3.339	0.045	98.000	14.472	12.156	24.445	1.265	2.357	5.065
	3.337	0.047	97.900	14.457	12.144	24.445	1.265	2.356	5.061
	3.200	0.184	91.856	13.565	11.394	24.443	1.240	2.275	4.839
	3.000	0.384	83.214	12.288	10.322	24.442	1.203	2.156	4.498
	2.800	0.584	74.811	11.047	9.280	24.440	1.162	2.037	4.135
	2.600	0.784	66.678	9.846	8.271	24.438	1.120	1.918	3.746
	2.400	0.984	58.848	8.690	7.300	24.437	1.075	1.798	3.340
	2.200	1.184	51.346	7.582	6.369	24.436	1.028	1.678	2.937
	2.000	1.384	44.186	6.525	5.481	24.435	0.978	1.559	2.550
	1.800	1.584	37.384	5.521	4.637	24.434	0.925	1.439	2.176
	1.600	1.784	30.959	4.572	3.840	24.432	0.868	1.319	1.819
	1.400	1.984	24.928	3.681	3.092	24.431	0.805	1.198	1.488
	1.200	2.184	19.314	2.852	2.396	24.428	0.735	1.077	1.179
	1.000	2.384	14.171	2.093	1.758	24.425	0.652	0.953	0.875
	0.800	2.584	9.609	1.419	1.192	24.420	0.557	0.827	0.573
	0.600	2.784	5.779	0.853	0.717	24.413	0.449	0.700	0.307
	0.400	2.984	2.817	0.416	0.349	24.399	0.331	0.572	0.121
	0.222	3.162	1.000	0.148	0.124	24.365	0.220	0.459	0.032
	0.200	3.184	0.829	0.122	0.103	24.356	0.206	0.445	0.026
	0.000	3.384	0.000	0.000	0.000	23.521	0.003	0.316	0.000



Tank Calibrations - Combustible n° 1 Br

Fluid Type = Diesel Specific gravity = 0.84
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg to starboard

Tank Name	Sounding m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Combustible n° 1 Br	3.384	0.000	100.000	14.767	12.404	24.445	-1.273	2.383	0.000
	3.339	0.045	98.000	14.472	12.156	24.445	-1.265	2.357	5.065
	3.337	0.047	97.900	14.457	12.144	24.445	-1.265	2.356	5.061
	3.200	0.184	91.856	13.565	11.394	24.443	-1.240	2.275	4.839
	3.000	0.384	83.214	12.288	10.322	24.442	-1.203	2.156	4.498
	2.800	0.584	74.811	11.047	9.280	24.440	-1.162	2.037	4.135
	2.600	0.784	66.678	9.846	8.271	24.438	-1.120	1.918	3.746
	2.400	0.984	58.848	8.690	7.300	24.437	-1.075	1.798	3.340
	2.200	1.184	51.346	7.582	6.369	24.436	-1.028	1.678	2.937
	2.000	1.384	44.186	6.525	5.481	24.435	-0.978	1.559	2.550
	1.800	1.584	37.384	5.521	4.637	24.434	-0.925	1.439	2.176
	1.600	1.784	30.959	4.572	3.840	24.432	-0.868	1.319	1.819
	1.400	1.984	24.928	3.681	3.092	24.431	-0.805	1.198	1.488
	1.200	2.184	19.314	2.852	2.396	24.428	-0.735	1.077	1.179
	1.000	2.384	14.171	2.093	1.758	24.425	-0.652	0.953	0.875
	0.800	2.584	9.609	1.419	1.192	24.420	-0.557	0.827	0.573
	0.600	2.784	5.779	0.853	0.717	24.413	-0.449	0.700	0.307
	0.400	2.984	2.817	0.416	0.349	24.399	-0.331	0.572	0.121
	0.222	3.162	1.000	0.148	0.124	24.365	-0.220	0.459	0.032
	0.200	3.184	0.829	0.122	0.103	24.356	-0.206	0.445	0.026
	0.000	3.384	0.000	0.000	0.000	23.521	-0.003	0.316	0.000



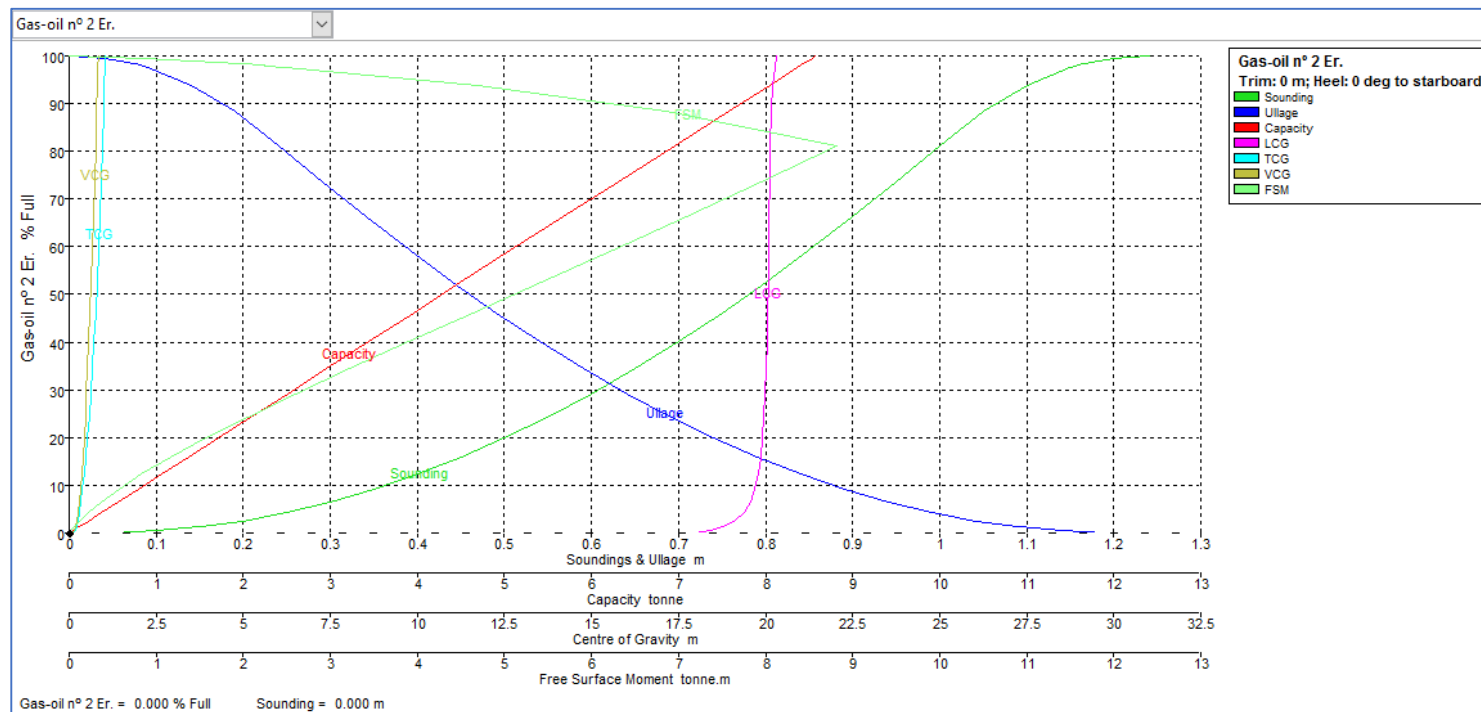
Tank Calibrations - Gas-oil n° 2 Er.

Fluid Type = Diesel Specific gravity = 0.84

Permeability = 100 %

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

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Gas-oil n° 2 Er.	1.241	0.000	100.000	10.206	8.573	20.329	1.025	0.835	0.000
	1.200	0.041	99.521	10.157	8.532	20.315	1.025	0.832	0.860
	1.159	0.082	98.000	10.001	8.401	20.279	1.022	0.826	2.252
	1.157	0.084	97.900	9.991	8.393	20.277	1.022	0.825	2.244
	1.150	0.091	97.536	9.954	8.361	20.270	1.022	0.824	2.479
	1.100	0.141	93.861	9.579	8.046	20.207	1.012	0.808	4.698
	1.050	0.191	88.391	9.021	7.577	20.149	0.994	0.787	6.860
	1.000	0.241	81.148	8.282	6.957	20.123	0.962	0.757	8.813
	0.950	0.291	73.532	7.504	6.304	20.112	0.924	0.726	7.950
	0.900	0.341	66.202	6.756	5.675	20.100	0.884	0.694	7.089
	0.850	0.391	59.176	6.039	5.073	20.087	0.843	0.661	6.243
	0.800	0.441	52.472	5.355	4.498	20.072	0.801	0.629	5.423
	0.750	0.491	46.108	4.706	3.953	20.055	0.757	0.597	4.639
	0.700	0.541	40.102	4.093	3.438	20.036	0.713	0.564	3.901
	0.650	0.591	34.469	3.518	2.955	20.013	0.667	0.531	3.218
	0.600	0.641	29.225	2.983	2.505	19.985	0.621	0.499	2.598
	0.550	0.691	24.382	2.488	2.090	19.952	0.574	0.466	2.047
	0.500	0.741	19.953	2.036	1.711	19.911	0.526	0.432	1.570
	0.450	0.791	15.947	1.627	1.367	19.858	0.479	0.399	1.166
	0.400	0.841	12.374	1.263	1.061	19.790	0.432	0.366	0.835
	0.350	0.891	9.239	0.943	0.792	19.698	0.385	0.332	0.572
	0.300	0.941	6.550	0.668	0.562	19.567	0.340	0.299	0.371
	0.250	0.991	4.311	0.440	0.370	19.371	0.298	0.264	0.226
	0.200	1.041	2.547	0.260	0.218	19.083	0.260	0.229	0.119
	0.150	1.091	1.309	0.134	0.112	18.773	0.222	0.193	0.053
	0.133	1.107	1.000	0.102	0.086	18.663	0.209	0.182	0.039
	0.100	1.141	0.520	0.053	0.045	18.422	0.184	0.159	0.019
	0.050	1.191	0.108	0.011	0.009	17.992	0.146	0.124	0.004
	0.000	1.241	0.000	0.000	0.000	17.551	0.005	0.089	0.000



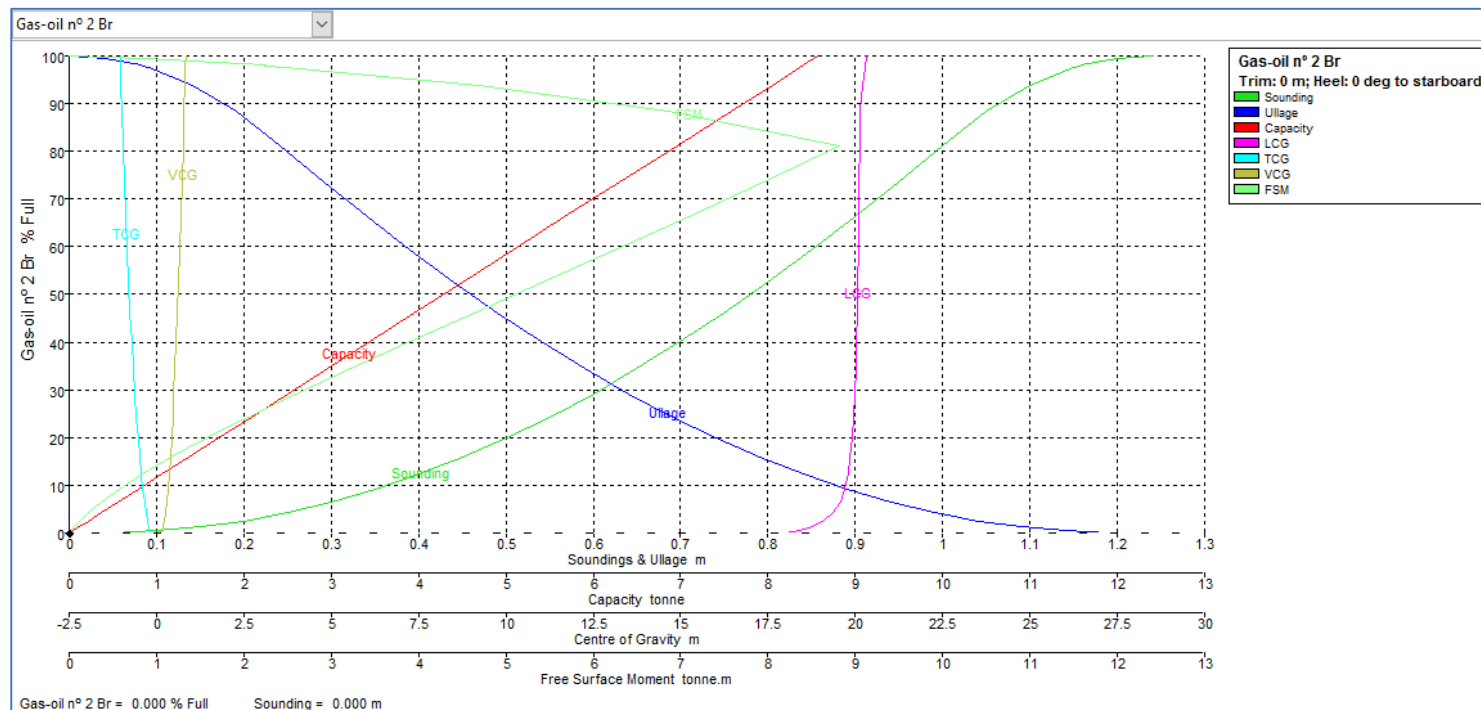
Tank Calibrations - Gas-oil n° 2 Br

Fluid Type = Diesel Specific gravity = 0.84

Permeability = 100 %

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

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Gas-oil n° 2 Br	1.241	0.000	100.000	10.206	8.573	20.329	-1.025	0.835	0.000
	1.200	0.041	99.521	10.157	8.532	20.315	-1.025	0.832	0.860
	1.159	0.082	98.000	10.001	8.401	20.279	-1.022	0.826	2.252
	1.157	0.084	97.900	9.991	8.393	20.277	-1.022	0.825	2.244
	1.150	0.091	97.536	9.954	8.361	20.270	-1.022	0.824	2.479
	1.100	0.141	93.861	9.579	8.046	20.207	-1.012	0.808	4.698
	1.050	0.191	88.391	9.021	7.577	20.149	-0.994	0.787	6.860
	1.000	0.241	81.148	8.282	6.957	20.123	-0.962	0.757	8.813
	0.950	0.291	73.532	7.504	6.304	20.112	-0.924	0.726	7.950
	0.900	0.341	66.202	6.756	5.675	20.100	-0.884	0.694	7.089
	0.850	0.391	59.176	6.039	5.073	20.087	-0.843	0.661	6.243
	0.800	0.441	52.472	5.355	4.498	20.072	-0.801	0.629	5.423
	0.750	0.491	46.108	4.706	3.953	20.055	-0.757	0.597	4.639
	0.700	0.541	40.102	4.093	3.438	20.036	-0.713	0.564	3.901
	0.650	0.591	34.469	3.518	2.955	20.013	-0.667	0.531	3.218
	0.600	0.641	29.225	2.983	2.505	19.985	-0.621	0.499	2.598
	0.550	0.691	24.382	2.488	2.090	19.952	-0.574	0.466	2.047
	0.500	0.741	19.953	2.036	1.711	19.911	-0.526	0.432	1.570
	0.450	0.791	15.947	1.627	1.367	19.858	-0.479	0.399	1.166
	0.400	0.841	12.374	1.263	1.061	19.790	-0.432	0.366	0.835
	0.350	0.891	9.239	0.943	0.792	19.698	-0.385	0.332	0.572
	0.300	0.941	6.550	0.668	0.562	19.567	-0.340	0.299	0.371
	0.250	0.991	4.311	0.440	0.370	19.371	-0.298	0.264	0.226
	0.200	1.041	2.547	0.260	0.218	19.083	-0.260	0.229	0.119
	0.150	1.091	1.309	0.134	0.112	18.773	-0.222	0.193	0.053
	0.133	1.107	1.000	0.102	0.086	18.663	-0.209	0.182	0.039
	0.100	1.141	0.520	0.053	0.045	18.422	-0.184	0.159	0.019
	0.050	1.191	0.108	0.011	0.009	17.992	-0.146	0.124	0.004
	0.000	1.241	0.000	0.000	0.000	17.551	-0.005	0.089	0.000



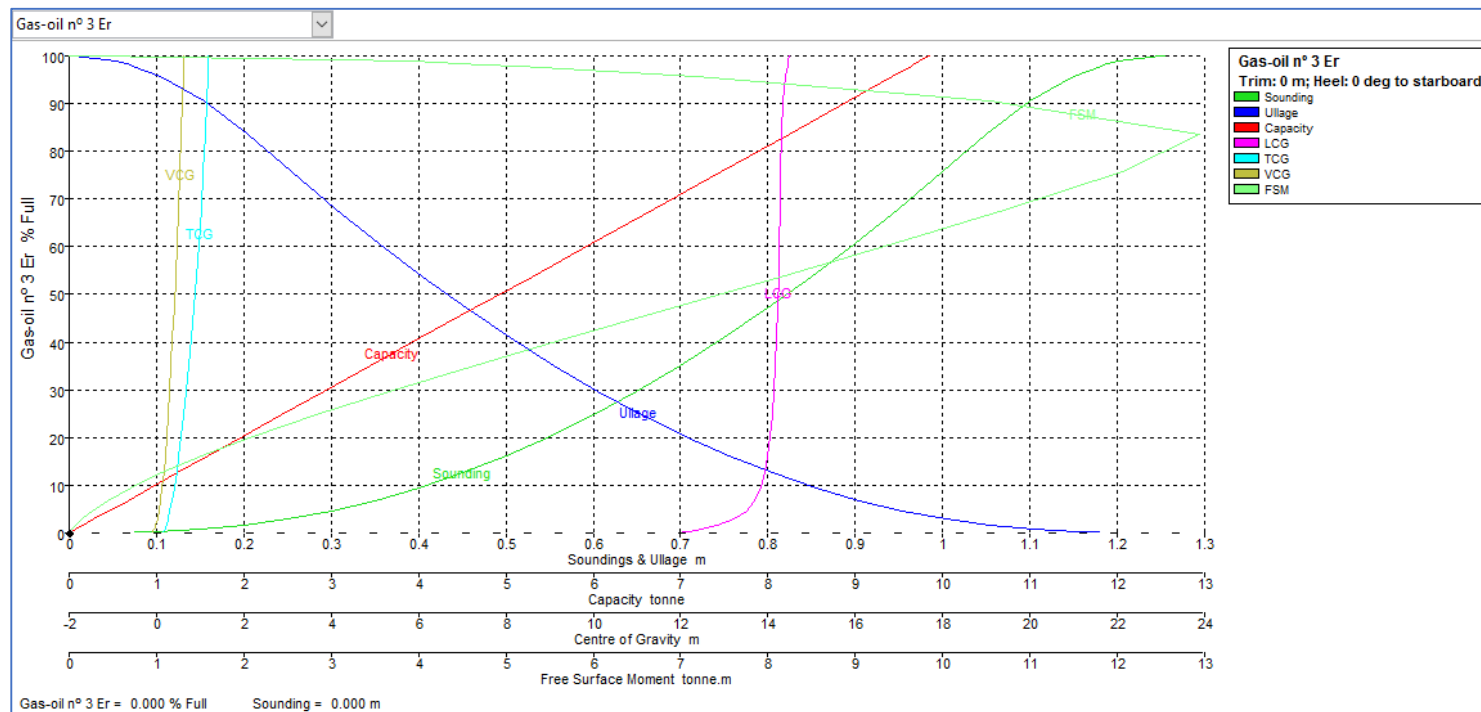
Tank Calibrations - Gas-oil n° 3 Er

Fluid Type = Diesel Specific gravity = 0.84

Permeability = 100 %

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

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Gas-oil n° 3 Er	1.255	0.000	100.000	11.731	9.854	14.503	1.195	0.631	0.000
	1.250	0.005	99.989	11.730	9.853	14.503	1.195	0.631	0.240
	1.200	0.055	98.813	11.592	9.737	14.473	1.189	0.625	3.939
	1.184	0.071	98.000	11.497	9.657	14.456	1.186	0.622	4.720
	1.182	0.073	97.900	11.485	9.648	14.454	1.185	0.622	5.159
	1.150	0.105	95.661	11.222	9.427	14.413	1.175	0.613	7.170
	1.100	0.155	90.561	10.624	8.924	14.347	1.150	0.593	10.546
	1.050	0.205	83.594	9.807	8.238	14.305	1.113	0.565	12.946
	1.000	0.255	75.678	8.878	7.458	14.291	1.067	0.533	12.051
	0.950	0.305	68.034	7.981	6.704	14.277	1.018	0.501	10.748
	0.900	0.355	60.702	7.121	5.982	14.262	0.968	0.469	9.439
	0.850	0.405	53.710	6.301	5.293	14.244	0.915	0.436	8.148
	0.800	0.455	47.082	5.523	4.640	14.224	0.860	0.403	6.902
	0.750	0.505	40.844	4.792	4.025	14.201	0.804	0.369	5.725
	0.700	0.555	35.018	4.108	3.451	14.174	0.747	0.336	4.640
	0.650	0.605	29.621	3.475	2.919	14.143	0.689	0.302	3.667
	0.600	0.655	24.670	2.894	2.431	14.105	0.631	0.268	2.820
	0.550	0.705	20.176	2.367	1.988	14.060	0.573	0.234	2.105
	0.500	0.755	16.144	1.894	1.591	14.003	0.516	0.200	1.519
	0.450	0.805	12.577	1.475	1.239	13.931	0.461	0.166	1.056
	0.400	0.855	9.472	1.111	0.933	13.837	0.407	0.132	0.703
	0.350	0.905	6.823	0.800	0.672	13.707	0.356	0.097	0.446
	0.300	0.955	4.620	0.542	0.455	13.516	0.309	0.062	0.268
	0.250	1.005	2.854	0.335	0.281	13.214	0.268	0.025	0.150
	0.200	1.055	1.573	0.185	0.155	12.827	0.232	-0.013	0.069
	0.167	1.087	1.000	0.117	0.099	12.599	0.209	-0.037	0.039
	0.150	1.105	0.764	0.090	0.075	12.486	0.197	-0.050	0.028
	0.100	1.155	0.295	0.035	0.029	12.178	0.164	-0.086	0.009
	0.050	1.205	0.063	0.007	0.006	11.866	0.132	-0.120	0.002
	0.000	1.255	0.000	0.000	0.000	11.525	0.107	-0.155	0.000



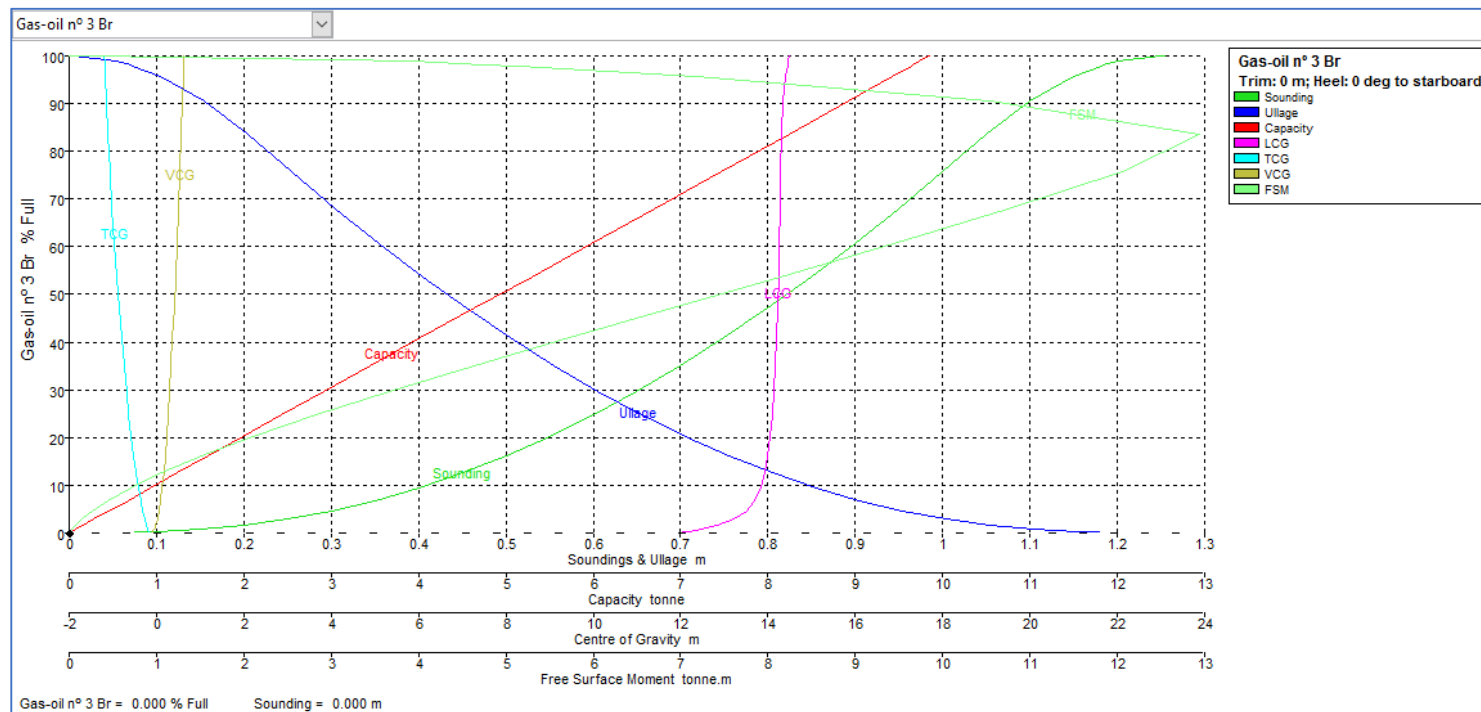
Tank Calibrations - Gas-oil n° 3 Br

Fluid Type = Diesel Specific gravity = 0.84

Permeability = 100 %

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

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Gas-oil n° 3 Br	1.255	0.000	100.000	11.731	9.854	14.503	-1.195	0.631	0.000
	1.250	0.005	99.989	11.730	9.853	14.503	-1.195	0.631	0.240
	1.200	0.055	98.813	11.592	9.737	14.473	-1.189	0.625	3.939
	1.184	0.071	98.000	11.497	9.657	14.456	-1.186	0.622	4.720
	1.182	0.073	97.900	11.485	9.648	14.454	-1.185	0.622	5.159
	1.150	0.105	95.661	11.222	9.427	14.413	-1.175	0.613	7.170
	1.100	0.155	90.561	10.624	8.924	14.347	-1.150	0.593	10.546
	1.050	0.205	83.594	9.807	8.238	14.305	-1.113	0.565	12.946
	1.000	0.255	75.678	8.878	7.458	14.291	-1.067	0.533	12.051
	0.950	0.305	68.034	7.981	6.704	14.277	-1.018	0.501	10.748
	0.900	0.355	60.702	7.121	5.982	14.262	-0.968	0.469	9.439
	0.850	0.405	53.710	6.301	5.293	14.244	-0.915	0.436	8.148
	0.800	0.455	47.082	5.523	4.640	14.224	-0.860	0.403	6.902
	0.750	0.505	40.844	4.792	4.025	14.201	-0.804	0.369	5.725
	0.700	0.555	35.018	4.108	3.451	14.174	-0.747	0.336	4.640
	0.650	0.605	29.621	3.475	2.919	14.143	-0.689	0.302	3.667
	0.600	0.655	24.670	2.894	2.431	14.105	-0.631	0.268	2.820
	0.550	0.705	20.176	2.367	1.988	14.060	-0.573	0.234	2.105
	0.500	0.755	16.144	1.894	1.591	14.003	-0.516	0.200	1.519
	0.450	0.805	12.577	1.475	1.239	13.931	-0.461	0.166	1.056
	0.400	0.855	9.472	1.111	0.933	13.837	-0.407	0.132	0.703
	0.350	0.905	6.823	0.800	0.672	13.707	-0.356	0.097	0.446
	0.300	0.955	4.620	0.542	0.455	13.516	-0.309	0.062	0.268
	0.250	1.005	2.854	0.335	0.281	13.214	-0.268	0.025	0.150
	0.200	1.055	1.573	0.185	0.155	12.827	-0.232	-0.013	0.069
	0.167	1.087	1.000	0.117	0.099	12.599	-0.209	-0.037	0.039
	0.150	1.105	0.764	0.090	0.075	12.486	-0.197	-0.050	0.028
	0.100	1.155	0.295	0.035	0.029	12.178	-0.164	-0.086	0.009
	0.050	1.205	0.063	0.007	0.006	11.866	-0.132	-0.120	0.002
	0.000	1.255	0.000	0.000	0.000	11.525	-0.107	-0.155	0.000



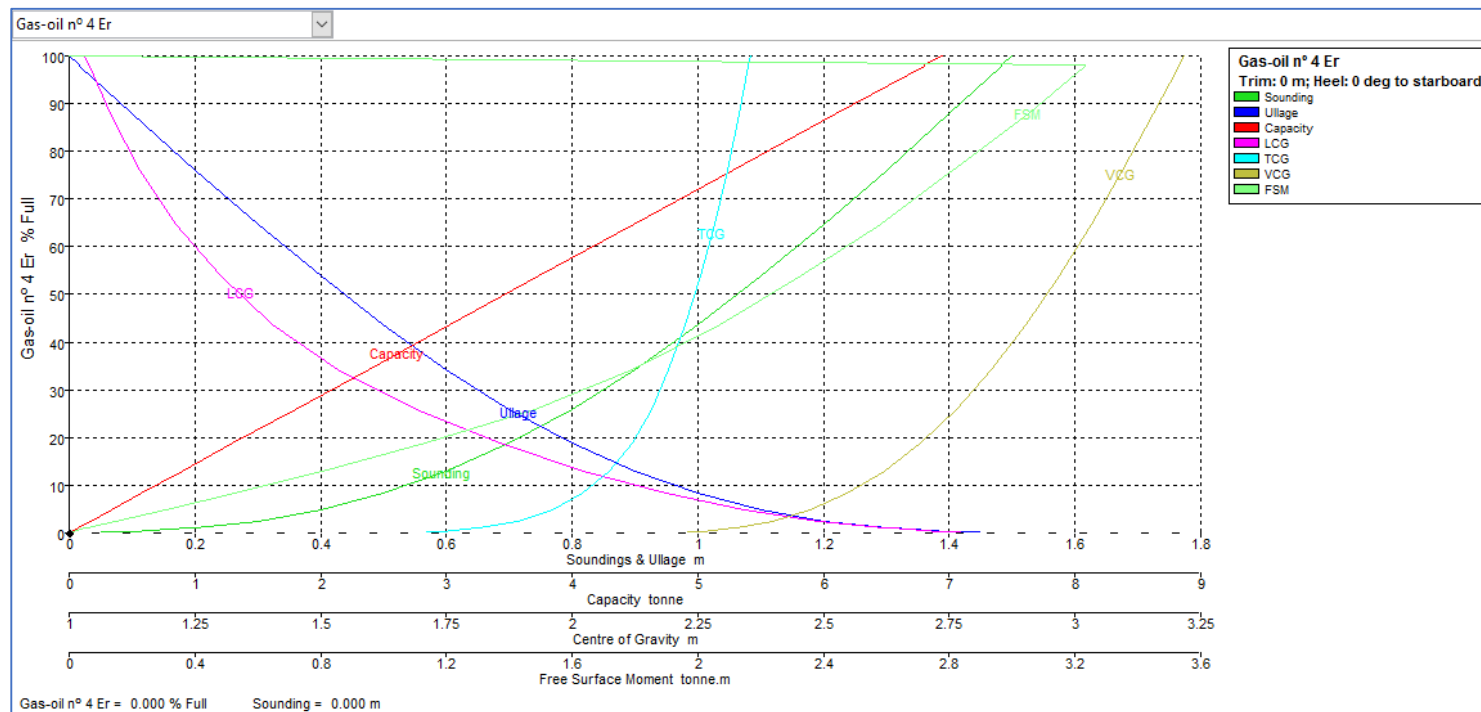
Tank Calibrations - Gas-oil n° 4 Er

Fluid Type = Diesel Specific gravity = 0.84

Permeability = 100 %

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

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Gas-oil n° 4 Er	1.500	0.000	100.000	8.266	6.943	1.032	2.355	3.216	0.000
	1.484	0.016	98.000	8.100	6.804	1.039	2.351	3.206	3.232
	1.483	0.017	97.900	8.092	6.797	1.040	2.351	3.206	3.231
	1.400	0.100	87.763	7.254	6.093	1.082	2.333	3.156	3.052
	1.300	0.200	75.954	6.278	5.274	1.142	2.308	3.094	2.812
	1.200	0.300	64.605	5.340	4.486	1.213	2.282	3.032	2.581
	1.100	0.400	53.774	4.445	3.734	1.301	2.254	2.968	2.329
	1.000	0.500	43.652	3.608	3.031	1.405	2.224	2.902	2.069
	0.900	0.600	34.304	2.835	2.382	1.534	2.191	2.834	1.792
	0.800	0.700	25.923	2.143	1.800	1.690	2.157	2.764	1.482
	0.700	0.800	18.760	1.551	1.303	1.857	2.119	2.693	1.132
	0.600	0.900	12.902	1.066	0.896	2.023	2.074	2.620	0.807
	0.500	1.000	8.307	0.687	0.577	2.185	2.021	2.547	0.527
	0.400	1.100	4.896	0.405	0.340	2.342	1.960	2.474	0.306
	0.300	1.200	2.548	0.211	0.177	2.489	1.891	2.400	0.149
	0.200	1.300	1.094	0.090	0.076	2.622	1.816	2.327	0.056
	0.191	1.309	1.000	0.083	0.069	2.633	1.809	2.321	0.050
	0.100	1.400	0.325	0.027	0.023	2.731	1.741	2.258	0.014
	0.000	1.500	0.000	0.000	0.000	2.812	1.680	2.200	0.000



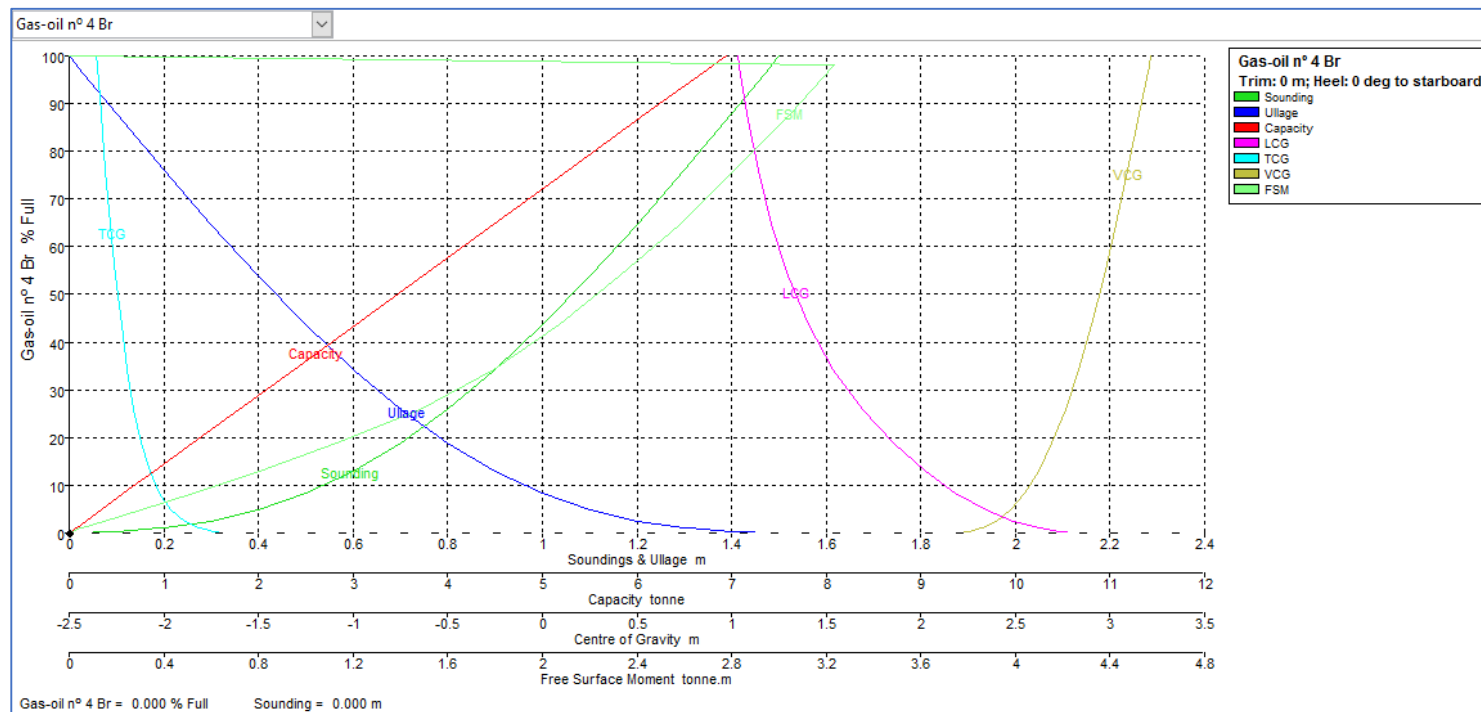
Tank Calibrations - Gas-oil n° 4 Br

Fluid Type = Diesel Specific gravity = 0.84

Permeability = 100 %

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

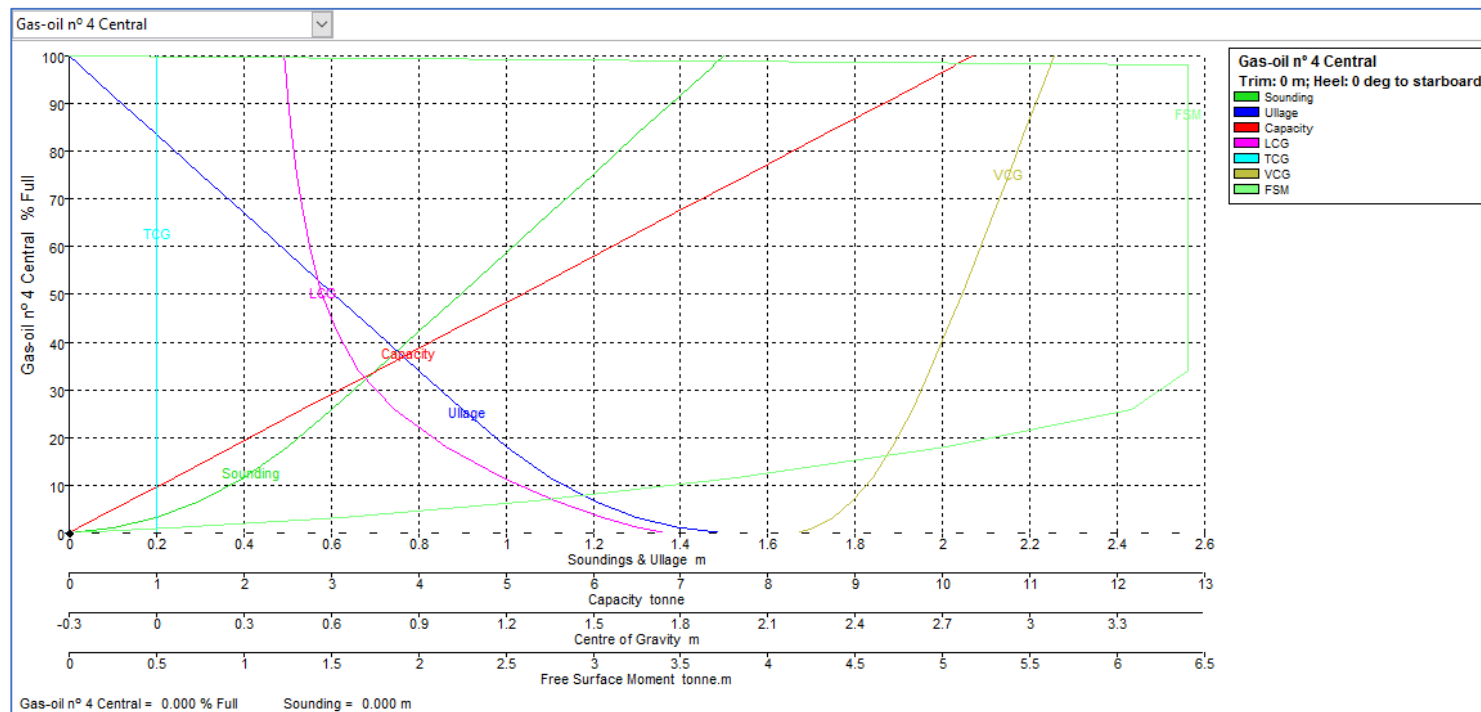
Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Gas-oil n° 4 Br	1.500	0.000	100.000	8.266	6.943	1.032	-2.355	3.216	0.000
	1.484	0.016	98.000	8.100	6.804	1.039	-2.351	3.206	3.232
	1.483	0.017	97.900	8.092	6.797	1.040	-2.351	3.206	3.231
	1.400	0.100	87.763	7.254	6.093	1.082	-2.333	3.156	3.052
	1.300	0.200	75.954	6.278	5.274	1.142	-2.308	3.094	2.812
	1.200	0.300	64.605	5.340	4.486	1.213	-2.282	3.032	2.581
	1.100	0.400	53.774	4.445	3.734	1.301	-2.254	2.968	2.329
	1.000	0.500	43.652	3.608	3.031	1.405	-2.224	2.902	2.069
	0.900	0.600	34.304	2.835	2.382	1.534	-2.191	2.834	1.792
	0.800	0.700	25.923	2.143	1.800	1.690	-2.157	2.764	1.482
	0.700	0.800	18.760	1.551	1.303	1.857	-2.119	2.693	1.132
	0.600	0.900	12.902	1.066	0.896	2.023	-2.074	2.620	0.807
	0.500	1.000	8.307	0.687	0.577	2.185	-2.021	2.547	0.527
	0.400	1.100	4.896	0.405	0.340	2.342	-1.960	2.474	0.306
	0.300	1.200	2.548	0.211	0.177	2.489	-1.891	2.400	0.149
	0.200	1.300	1.094	0.090	0.076	2.622	-1.816	2.327	0.056
	0.191	1.309	1.000	0.083	0.069	2.633	-1.809	2.321	0.050
	0.100	1.400	0.325	0.027	0.023	2.731	-1.741	2.258	0.014
	0.000	1.500	0.000	0.000	0.000	2.812	-1.680	2.200	0.000



Tank Calibrations - Gas-oil n° 4 Central

Fluid Type = Diesel Specific gravity = 0.84
 Permeability = 100 %
 Trim = 0 m (+ve by stern); Heel = 0 deg to starboard

Tank Name	Sounding m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Gas-oil n° 4 Central	1.500	0.000	100.000	12.323	10.352	0.438	0.000	3.081	0.000
	1.476	0.024	98.000	12.077	10.144	0.440	0.000	3.069	6.407
	1.475	0.025	97.900	12.064	10.134	0.440	0.000	3.068	6.407
	1.400	0.100	91.747	11.306	9.497	0.449	0.000	3.030	6.407
	1.300	0.200	83.495	10.289	8.643	0.464	0.000	2.979	6.407
	1.200	0.300	75.242	9.272	7.789	0.481	0.000	2.927	6.407
	1.100	0.400	66.989	8.255	6.934	0.503	0.000	2.875	6.407
	1.000	0.500	58.736	7.238	6.080	0.531	0.000	2.823	6.407
	0.900	0.600	50.484	6.221	5.226	0.568	0.000	2.769	6.407
	0.800	0.700	42.231	5.204	4.372	0.619	0.000	2.714	6.407
	0.700	0.800	33.978	4.187	3.517	0.695	0.000	2.657	6.407
	0.600	0.900	25.770	3.176	2.668	0.817	0.000	2.595	6.079
	0.500	1.000	18.055	2.225	1.869	0.993	0.000	2.529	5.022
	0.400	1.100	11.605	1.430	1.201	1.187	0.000	2.460	3.823
	0.300	1.200	6.648	0.819	0.688	1.370	0.000	2.392	2.665
	0.200	1.300	3.149	0.388	0.326	1.532	0.000	2.323	1.559
	0.100	1.400	1.017	0.125	0.105	1.658	0.000	2.257	0.581
	0.099	1.401	1.000	0.123	0.104	1.660	0.000	2.256	0.572
	0.000	1.500	0.000	0.000	0.000	1.748	0.000	2.200	0.000



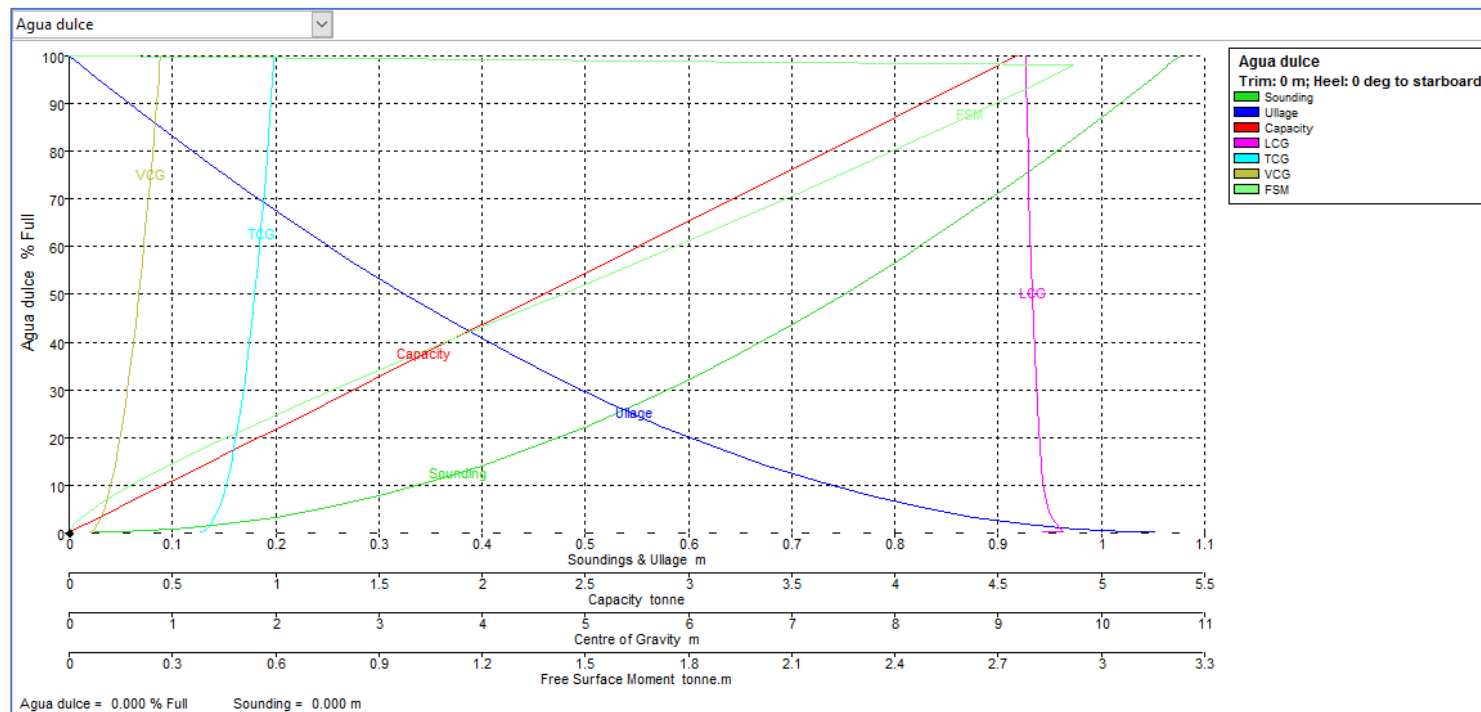
Tank Calibrations - Agua dulce

Fluid Type = Fresh Water Specific gravity = 1

Permeability = 100 %

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

Tank Name	Sounding m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Agua dulce	1.076	0.000	100.000	4.592	4.592	9.266	1.983	0.885	0.000
	1.064	0.012	98.000	4.501	4.501	9.268	1.977	0.878	2.918
	1.064	0.012	97.900	4.496	4.496	9.268	1.977	0.877	2.915
	1.050	0.026	95.528	4.387	4.387	9.270	1.970	0.869	2.848
	1.000	0.076	87.123	4.001	4.001	9.279	1.944	0.837	2.603
	0.950	0.126	79.018	3.629	3.629	9.289	1.917	0.805	2.360
	0.900	0.176	71.230	3.271	3.271	9.298	1.889	0.772	2.119
	0.850	0.226	63.775	2.929	2.929	9.308	1.860	0.740	1.882
	0.800	0.276	56.671	2.603	2.603	9.318	1.830	0.708	1.650
	0.750	0.326	49.935	2.293	2.293	9.329	1.799	0.675	1.426
	0.700	0.376	43.582	2.001	2.001	9.340	1.768	0.642	1.214
	0.650	0.426	37.625	1.728	1.728	9.351	1.736	0.610	1.016
	0.600	0.476	32.075	1.473	1.473	9.363	1.703	0.577	0.834
	0.550	0.526	26.942	1.237	1.237	9.375	1.669	0.544	0.669
	0.500	0.576	22.233	1.021	1.021	9.389	1.635	0.511	0.523
	0.450	0.626	17.956	0.825	0.825	9.403	1.600	0.478	0.395
	0.400	0.676	14.118	0.648	0.648	9.419	1.564	0.445	0.287
	0.350	0.726	10.725	0.493	0.493	9.437	1.527	0.412	0.198
	0.300	0.776	7.785	0.358	0.358	9.458	1.490	0.378	0.128
	0.250	0.826	5.306	0.244	0.244	9.485	1.452	0.345	0.075
	0.200	0.876	3.297	0.151	0.151	9.520	1.413	0.311	0.038
	0.150	0.926	1.769	0.081	0.081	9.564	1.373	0.278	0.016
	0.116	0.960	1.000	0.046	0.046	9.596	1.345	0.254	0.007
	0.100	0.976	0.723	0.033	0.033	9.610	1.332	0.244	0.004
	0.050	1.026	0.148	0.007	0.007	9.629	1.290	0.210	0.000
	0.000	1.076	0.000	0.000	0.000	9.236	1.250	0.174	0.000



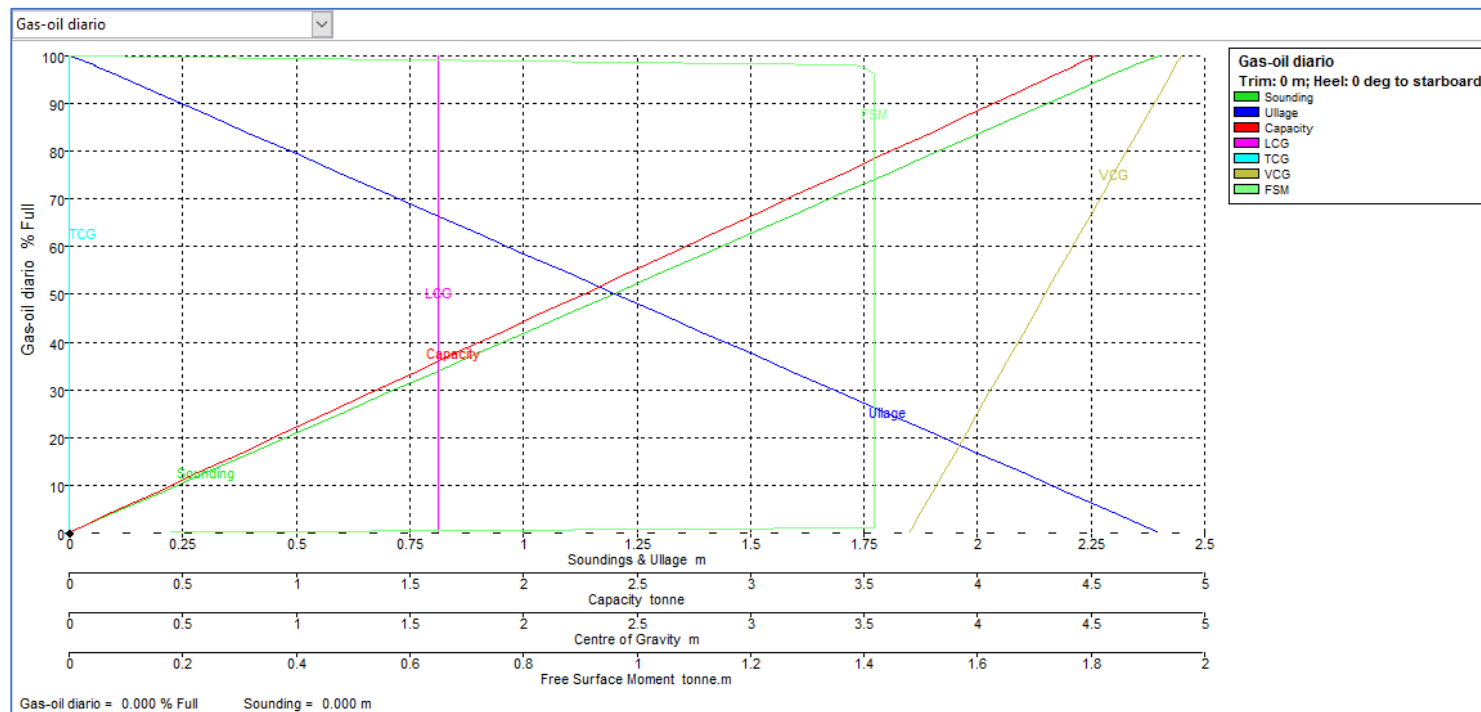
Tank Calibrations - Gas-oil diario

Fluid Type = Diesel Specific gravity = 0.84

Permeability = 100 %

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

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Gas-oil diario	2.400	0.000	100.000	5.382	4.521	1.626	0.000	4.896	0.000
	2.400	0.000	100.000	5.382	4.521	1.626	0.000	4.896	0.000
	2.345	0.055	98.000	5.275	4.431	1.625	0.000	4.872	1.378
	2.342	0.058	97.900	5.269	4.426	1.625	0.000	4.871	1.395
	2.300	0.100	96.146	5.175	4.347	1.625	0.000	4.850	1.418
	2.200	0.200	91.966	4.950	4.158	1.625	0.000	4.800	1.418
	2.100	0.300	87.786	4.725	3.969	1.625	0.000	4.750	1.418
	2.000	0.400	83.606	4.500	3.780	1.625	0.000	4.700	1.418
	1.900	0.500	79.425	4.275	3.591	1.625	0.000	4.650	1.418
	1.800	0.600	75.245	4.050	3.402	1.625	0.000	4.600	1.418
	1.700	0.700	71.065	3.825	3.213	1.625	0.000	4.550	1.418
	1.600	0.800	66.884	3.600	3.024	1.625	0.000	4.500	1.418
	1.500	0.900	62.704	3.375	2.835	1.625	0.000	4.450	1.418
	1.400	1.000	58.524	3.150	2.646	1.625	0.000	4.400	1.418
	1.300	1.100	54.344	2.925	2.457	1.625	0.000	4.350	1.418
	1.200	1.200	50.163	2.700	2.268	1.625	0.000	4.300	1.418
	1.100	1.300	45.983	2.475	2.079	1.625	0.000	4.250	1.418
	1.000	1.400	41.803	2.250	1.890	1.625	0.000	4.200	1.418
	0.900	1.500	37.622	2.025	1.701	1.625	0.000	4.150	1.418
	0.800	1.600	33.442	1.800	1.512	1.625	0.000	4.100	1.418
	0.700	1.700	29.262	1.575	1.323	1.625	0.000	4.050	1.418
	0.600	1.800	25.082	1.350	1.134	1.625	0.000	4.000	1.418
	0.500	1.900	20.901	1.125	0.945	1.625	0.000	3.950	1.418
	0.400	2.000	16.721	0.900	0.756	1.625	0.000	3.900	1.418
	0.300	2.100	12.541	0.675	0.567	1.625	0.000	3.850	1.418
	0.200	2.200	8.361	0.450	0.378	1.625	0.000	3.800	1.418
	0.100	2.300	4.180	0.225	0.189	1.625	0.000	3.750	1.418
	0.024	2.376	1.000	0.054	0.045	1.625	0.000	3.712	1.418
	0.000	2.400	0.000	0.000	0.000	1.625	0.000	3.700	0.000



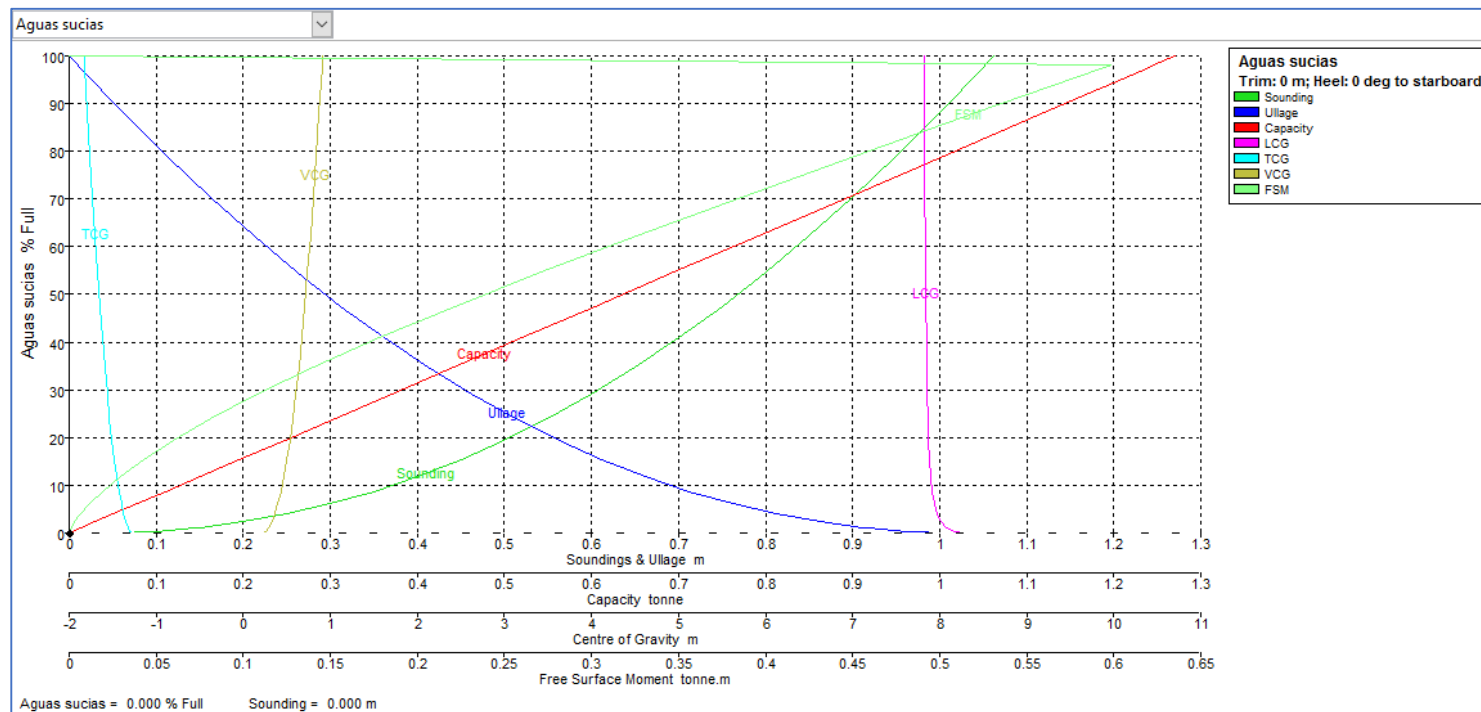
Tank Calibrations - Aguas sucias

Fluid Type = Fresh Water Specific gravity = 1

Permeability = 100 %

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

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Aguas sucias	1.062	0.000	100.000	1.271	1.271	7.820	-1.822	0.914	0.000
	1.052	0.010	98.000	1.246	1.246	7.820	-1.817	0.907	0.598
	1.051	0.011	97.900	1.244	1.244	7.820	-1.816	0.907	0.597
	1.050	0.012	97.611	1.241	1.241	7.820	-1.815	0.906	0.595
	1.000	0.062	88.088	1.120	1.120	7.823	-1.788	0.873	0.521
	0.950	0.112	79.018	1.004	1.004	7.826	-1.761	0.839	0.451
	0.900	0.162	70.411	0.895	0.895	7.830	-1.733	0.806	0.386
	0.850	0.212	62.281	0.792	0.792	7.833	-1.705	0.772	0.326
	0.800	0.262	54.642	0.695	0.695	7.837	-1.677	0.739	0.271
	0.750	0.312	47.503	0.604	0.604	7.842	-1.648	0.705	0.221
	0.700	0.362	40.872	0.520	0.520	7.847	-1.619	0.671	0.178
	0.650	0.412	34.754	0.442	0.442	7.852	-1.591	0.637	0.140
	0.600	0.462	29.149	0.371	0.371	7.859	-1.563	0.603	0.108
	0.550	0.512	24.057	0.306	0.306	7.866	-1.535	0.570	0.082
	0.500	0.562	19.473	0.248	0.248	7.875	-1.507	0.536	0.060
	0.450	0.612	15.393	0.196	0.196	7.886	-1.480	0.502	0.043
	0.400	0.662	11.810	0.150	0.150	7.899	-1.454	0.468	0.029
	0.350	0.712	8.716	0.111	0.111	7.915	-1.427	0.434	0.019
	0.300	0.762	6.104	0.078	0.078	7.937	-1.402	0.400	0.012
	0.250	0.812	3.968	0.050	0.050	7.968	-1.376	0.366	0.007
	0.200	0.862	2.305	0.029	0.029	8.013	-1.351	0.331	0.003
	0.150	0.912	1.116	0.014	0.014	8.081	-1.327	0.296	0.001
	0.144	0.918	1.000	0.013	0.013	8.091	-1.324	0.292	0.001
	0.100	0.962	0.390	0.005	0.005	8.170	-1.303	0.261	0.000
	0.050	1.012	0.061	0.001	0.001	8.291	-1.277	0.224	0.000
	0.000	1.062	0.000	0.000	0.000	8.491	-1.250	0.188	0.000



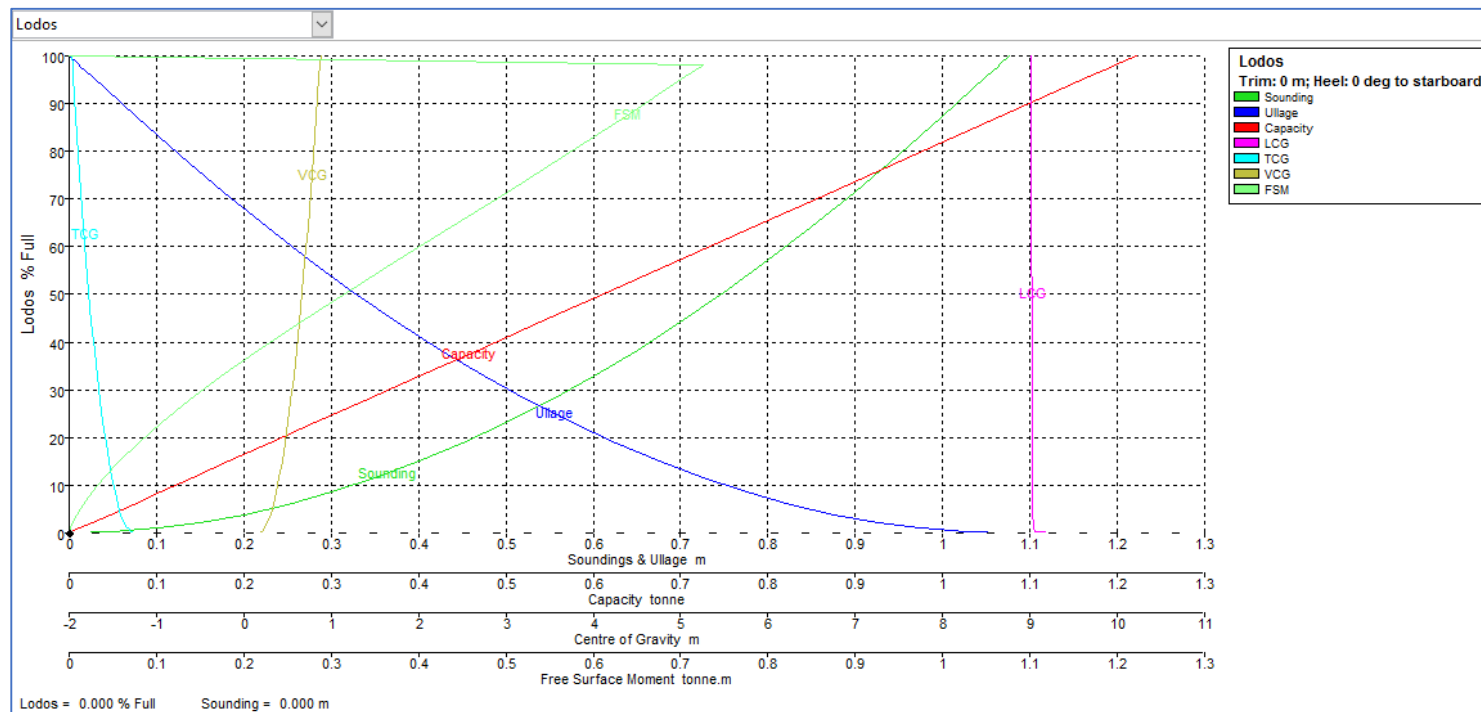
Tank Calibrations - Lodos

Fluid Type = Sea Water Specific gravity = 1.025

Permeability = 100 %

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

Tank Name	Sounding m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Lodos	1.076	0.000	100.000	1.192	1.221	9.016	-1.968	0.880	0.000
	1.064	0.012	98.000	1.168	1.197	9.016	-1.961	0.872	0.726
	1.064	0.012	97.900	1.166	1.196	9.016	-1.961	0.872	0.725
	1.050	0.026	95.562	1.139	1.167	9.017	-1.954	0.863	0.706
	1.000	0.076	87.242	1.039	1.065	9.017	-1.926	0.831	0.637
	0.950	0.126	79.218	0.944	0.967	9.018	-1.897	0.799	0.569
	0.900	0.176	71.508	0.852	0.873	9.018	-1.868	0.766	0.502
	0.850	0.226	64.130	0.764	0.783	9.019	-1.838	0.734	0.438
	0.800	0.276	57.102	0.680	0.697	9.020	-1.807	0.701	0.376
	0.750	0.326	50.443	0.601	0.616	9.020	-1.775	0.669	0.318
	0.700	0.376	44.165	0.526	0.539	9.021	-1.743	0.636	0.265
	0.650	0.426	38.281	0.456	0.468	9.022	-1.711	0.603	0.217
	0.600	0.476	32.798	0.391	0.401	9.023	-1.678	0.570	0.174
	0.550	0.526	27.721	0.330	0.339	9.023	-1.646	0.537	0.137
	0.500	0.576	23.055	0.275	0.282	9.024	-1.613	0.504	0.106
	0.450	0.626	18.801	0.224	0.230	9.025	-1.579	0.472	0.079
	0.400	0.676	14.962	0.178	0.183	9.026	-1.546	0.439	0.057
	0.350	0.726	11.541	0.138	0.141	9.027	-1.511	0.406	0.040
	0.300	0.776	8.542	0.102	0.104	9.028	-1.477	0.373	0.026
	0.250	0.826	5.973	0.071	0.073	9.030	-1.441	0.340	0.016
	0.200	0.876	3.843	0.046	0.047	9.032	-1.405	0.308	0.008
	0.150	0.926	2.164	0.026	0.026	9.035	-1.367	0.275	0.004
	0.102	0.974	1.000	0.012	0.012	9.041	-1.331	0.243	0.001
	0.100	0.976	0.953	0.011	0.012	9.042	-1.329	0.241	0.001
	0.050	1.026	0.227	0.003	0.003	9.062	-1.289	0.208	0.000
	0.000	1.076	0.000	0.000	0.000	9.299	-1.250	0.174	0.000



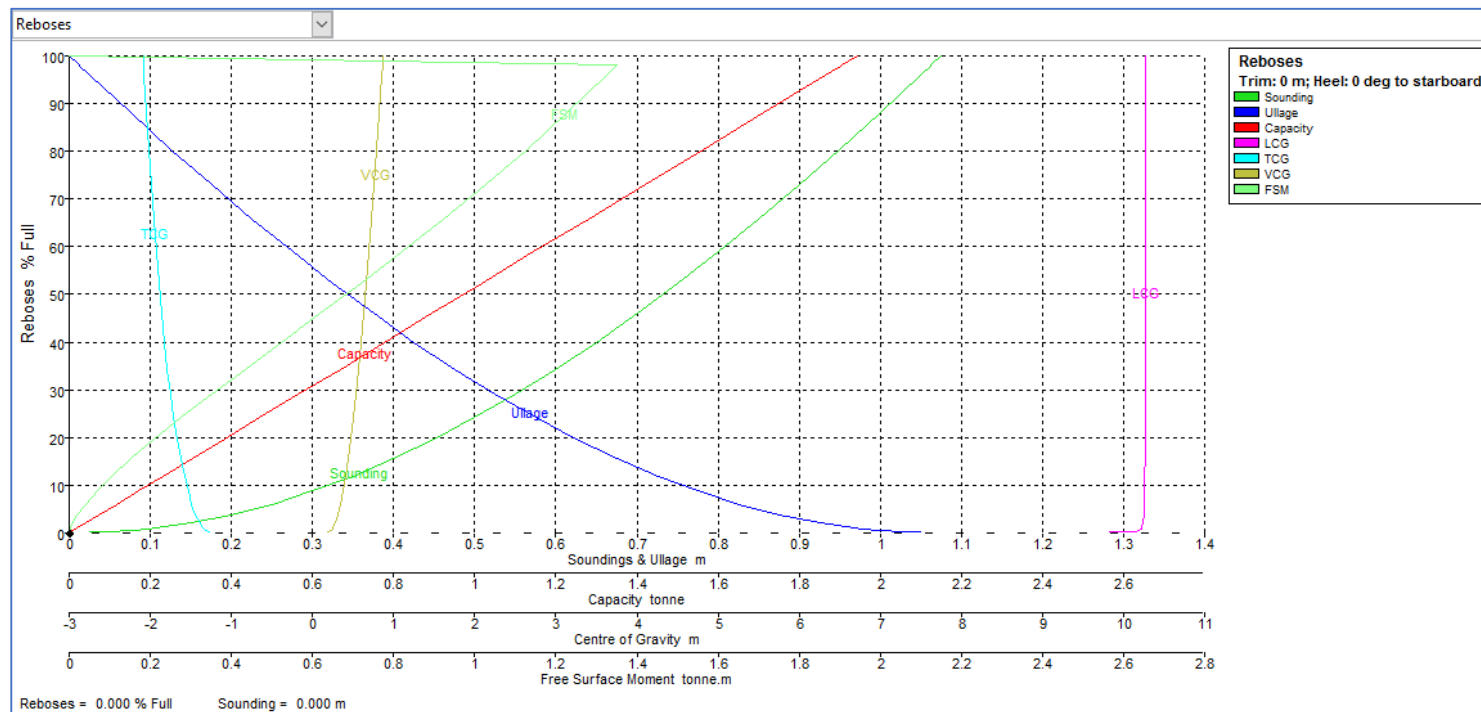
Tank Calibrations - Reboses

Fluid Type = Slops Specific gravity = 0.913

Permeability = 100 %

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

Tank Name	Sounding m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Reboses	1.075	0.000	100.000	2.130	1.945	10.268	-2.087	0.871	0.000
	1.063	0.012	98.000	2.087	1.906	10.268	-2.081	0.863	1.350
	1.062	0.013	97.900	2.085	1.904	10.268	-2.081	0.863	1.349
	1.050	0.025	95.935	2.043	1.866	10.268	-2.074	0.855	1.325
	1.000	0.075	88.074	1.876	1.713	10.269	-2.048	0.825	1.228
	0.950	0.125	80.423	1.713	1.564	10.269	-2.021	0.794	1.128
	0.900	0.175	73.000	1.555	1.420	10.270	-1.992	0.763	1.027
	0.850	0.225	65.823	1.402	1.280	10.270	-1.961	0.731	0.924
	0.800	0.275	58.912	1.255	1.146	10.270	-1.929	0.700	0.821
	0.750	0.325	52.288	1.114	1.017	10.270	-1.896	0.668	0.719
	0.700	0.375	45.971	0.979	0.894	10.270	-1.861	0.636	0.619
	0.650	0.425	39.982	0.852	0.778	10.270	-1.825	0.604	0.524
	0.600	0.475	34.339	0.731	0.668	10.270	-1.787	0.572	0.434
	0.550	0.525	29.062	0.619	0.565	10.269	-1.748	0.540	0.351
	0.500	0.575	24.168	0.515	0.470	10.268	-1.708	0.508	0.276
	0.450	0.625	19.675	0.419	0.383	10.266	-1.666	0.475	0.210
	0.400	0.675	15.599	0.332	0.303	10.264	-1.623	0.442	0.153
	0.350	0.725	11.960	0.255	0.233	10.262	-1.579	0.410	0.106
	0.300	0.775	8.774	0.187	0.171	10.258	-1.533	0.377	0.068
	0.250	0.825	6.058	0.129	0.118	10.254	-1.486	0.344	0.040
	0.200	0.875	3.828	0.082	0.074	10.247	-1.439	0.311	0.020
	0.150	0.925	2.098	0.045	0.041	10.236	-1.390	0.277	0.008
	0.106	0.969	1.000	0.021	0.019	10.219	-1.347	0.248	0.003
	0.100	0.975	0.879	0.019	0.017	10.216	-1.341	0.244	0.002
	0.050	1.025	0.181	0.004	0.004	10.149	-1.292	0.210	0.000
	0.000	1.075	0.000	0.000	0.000	9.509	-1.250	0.175	0.000



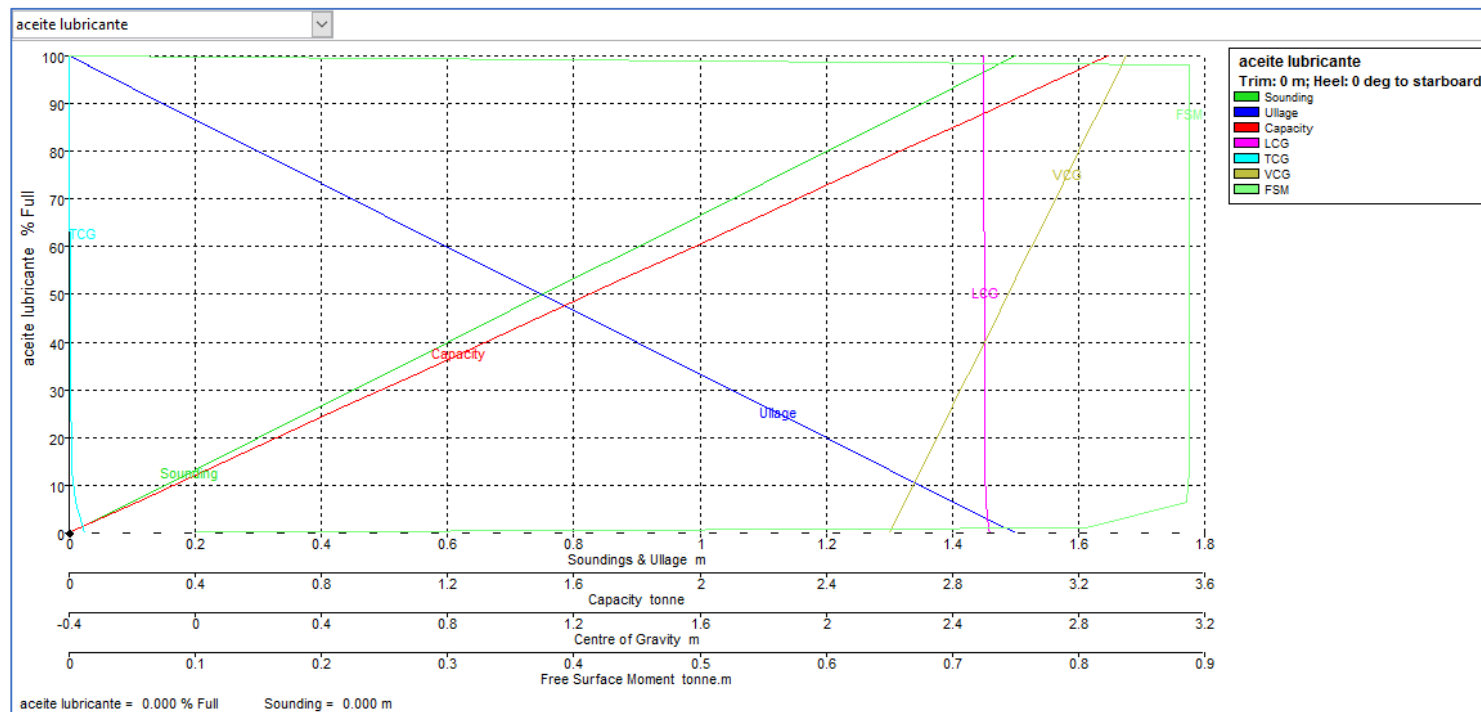
Tank Calibrations - aceite lubricante

Fluid Type = Specific gravity = 1

Permeability = 100 %

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

Tank Name	Sounding m	Ullage m	% Full	Capacity m ³	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
aceite lubricante	1.500	0.000	100.000	3.296	3.296	2.501	-0.399	2.951	0.000
	1.470	0.030	98.000	3.230	3.230	2.501	-0.399	2.936	0.887
	1.469	0.031	97.900	3.226	3.226	2.501	-0.399	2.935	0.887
	1.400	0.100	93.324	3.076	3.076	2.501	-0.399	2.901	0.887
	1.300	0.200	86.649	2.856	2.856	2.501	-0.399	2.851	0.887
	1.200	0.300	79.973	2.636	2.636	2.501	-0.398	2.801	0.887
	1.100	0.400	73.298	2.416	2.416	2.501	-0.398	2.751	0.887
	1.000	0.500	66.622	2.196	2.196	2.501	-0.398	2.701	0.887
	0.900	0.600	59.947	1.976	1.976	2.501	-0.398	2.651	0.887
	0.800	0.700	53.271	1.756	1.756	2.501	-0.398	2.601	0.887
	0.700	0.800	46.596	1.536	1.536	2.501	-0.397	2.551	0.887
	0.600	0.900	39.920	1.316	1.316	2.501	-0.397	2.501	0.887
	0.500	1.000	33.245	1.096	1.096	2.502	-0.396	2.451	0.887
	0.400	1.100	26.569	0.876	0.876	2.502	-0.395	2.401	0.887
	0.300	1.200	19.894	0.656	0.656	2.503	-0.393	2.351	0.887
	0.200	1.300	13.218	0.436	0.436	2.504	-0.390	2.301	0.887
	0.100	1.400	6.543	0.216	0.216	2.508	-0.380	2.250	0.886
	0.016	1.484	1.000	0.033	0.033	2.517	-0.356	2.208	0.806
	0.000	1.500	0.000	0.000	0.000	2.519	-0.350	2.200	0.000



Tank Calibrations - Aceite hidraulico

Fluid Type = Specific gravity = 1

Permeability = 100 %

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

Tank Name	Sounding m	Ullage m	% Full	Capacity m^3	Capacity tonne	LCG m	TCG m	VCG m	FSM tonne.m
Aceite hidraulico	1.500	0.000	100.000	1.196	1.196	2.501	1.099	2.953	0.000
	1.470	0.030	98.000	1.172	1.172	2.501	1.099	2.938	0.043
	1.469	0.031	97.900	1.171	1.171	2.501	1.099	2.937	0.043
	1.400	0.100	93.309	1.116	1.116	2.501	1.099	2.903	0.043
	1.300	0.200	86.618	1.036	1.036	2.502	1.099	2.853	0.043
	1.200	0.300	79.927	0.956	0.956	2.502	1.099	2.803	0.043
	1.100	0.400	73.236	0.876	0.876	2.502	1.099	2.753	0.043
	1.000	0.500	66.545	0.796	0.796	2.502	1.098	2.703	0.043
	0.900	0.600	59.854	0.716	0.716	2.502	1.098	2.653	0.043
	0.800	0.700	53.163	0.636	0.636	2.503	1.098	2.603	0.043
	0.700	0.800	46.472	0.556	0.556	2.503	1.098	2.553	0.043
	0.600	0.900	39.780	0.476	0.476	2.504	1.097	2.502	0.043
	0.500	1.000	33.089	0.396	0.396	2.504	1.097	2.452	0.043
	0.400	1.100	26.398	0.316	0.316	2.505	1.096	2.402	0.043
	0.300	1.200	19.707	0.236	0.236	2.507	1.095	2.352	0.043
	0.200	1.300	13.016	0.156	0.156	2.511	1.092	2.302	0.043
	0.100	1.400	6.326	0.076	0.076	2.522	1.084	2.251	0.042
	0.017	1.483	1.000	0.012	0.012	2.549	1.066	2.209	0.036
	0.000	1.500	0.000	0.000	0.000	2.556	1.062	2.200	0.000

