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21/9/2009 16:35:04 Robert Allan Ltd

GHS 11.38C SMIT - REBRAS RAMPARTS 3000 TUG - SMIT CARAJÁ (HULL 326)

FUEL OIL DAY TANK - STARBOARD

TANK CHARACTERISTICS

No Trim No Heel

Tank : FQ_DAY.S , Contents: FUEL OIL at 0.87 Specific Gravity

Snding	Volume LITERS	Weight METRIC TON	Center of Gravity LCG	TCG	VCG	GML	FSM m.-MT
0	132	0.11	6.306a	4.027s	2.509	52.96	3.18
100	908	0.79	6.308a	4.030s	2.559	7.77	3.23
200	1686	1.47	6.309a	4.032s	2.609	4.19	3.25
300	2466	2.15	6.309a	4.034s	2.659	2.87	3.27
400	3247	2.83	6.309a	4.035s	2.709	2.19	3.29
500	4031	3.51	6.309a	4.036s	2.759	1.76	3.32
600	4816	4.19	6.309a	4.038s	2.809	1.48	3.34
700	5603	4.87	6.309a	4.039s	2.860	1.28	3.36
800	6392	5.56	6.309a	4.041s	2.910	1.12	3.39
900	7182	6.25	6.309a	4.042s	2.960	1.00	3.41
1000	7975	6.94	6.309a	4.044s	3.011	0.90	3.43
1100	8769	7.63	6.309a	4.045s	3.061	0.82	3.46
1200	9565	8.32	6.309a	4.046s	3.111	0.76	3.48
1300	10363	9.02	6.309a	4.048s	3.162	0.70	3.50
1400	11162	9.71	6.308a	4.049s	3.212	0.65	3.53
1500	11964	10.41	6.308a	4.051s	3.263	0.61	3.55
1600	12767	11.11	6.308a	4.052s	3.314	0.57	3.58
1700	13572	11.81	6.308a	4.053s	3.364	0.54	3.60
1800	14379	12.51	6.308a	4.055s	3.415	0.51	3.62
1900	15187	13.21	6.308a	4.056s	3.465	0.48	3.65
2000	15998	13.92	6.308a	4.058s	3.516	0.46	3.67
2100	16810	14.62	6.308a	4.059s	3.567	0.44	3.70
2200	17623	15.33	6.308a	4.060s	3.618	0.42	3.70
2300	18436	16.04	6.308a	4.062s	3.668	0.40	3.70
2400	19249	16.75	6.308a	4.063s	3.719	0.38	3.70
2500	20062	17.45	6.307a	4.064s	3.770	0.37	3.70
2600	20875	18.16	6.307a	4.065s	3.820	0.35	3.70
2700	21688	18.87	6.307a	4.066s	3.871	0.34	3.70
2800	22491	19.57	6.308a	4.066s	3.920	0.15	2.78
2848	22623	19.68	6.313a	4.066s	3.929		

Soundings in mm.---------- ---------- Other distances in meters ----------

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21/9/2009 16:35:04 Robert Allan Ltd

GHS 11.38C SMIT - REBRAS RAMPARTS 3000 TUG - SMIT CARAJÁ (HULL 326)

AFT DOUBLE BOTTOM FUEL OIL TANK - PORT

TANK CHARACTERISTICS

No Trim No Heel

Tank : FO_AFT.P , Contents: FUEL OIL at 0.87 Specific Gravity

Snding	Volume LITERS	Weight METRIC TON	Center of Gravity LCG	TCG	VCG	GML	FSM m.-MT
0	4	0.00	4.773a	0.246p	0.492	0.11	0.00
100	25	0.02	4.870a	0.337p	0.540	0.45	0.02
200	68	0.06	4.951a	0.410p	0.593	0.67	0.07
300	143	0.12	5.035a	0.502p	0.644	0.94	0.22
400	256	0.22	5.113a	0.598p	0.695	1.15	0.48
500	418	0.36	5.190a	0.696p	0.745	1.38	0.93
600	642	0.56	5.268a	0.799p	0.797	1.60	1.67
700	964	0.84	5.350a	0.913p	0.854	1.81	2.89
800	1414	1.23	5.440a	1.036p	0.915	2.09	4.89
900	2022	1.76	5.530a	1.168p	0.980	2.28	7.86
1000	2816	2.45	5.626a	1.301p	1.048	2.39	11.28
1100	3792	3.30	5.713a	1.432p	1.117	2.21	14.28
1200	4934	4.29	5.791a	1.554p	1.185	1.99	17.11
1300	6218	5.41	5.860a	1.665p	1.252	1.80	19.86
1400	7615	6.63	5.920a	1.765p	1.317	1.63	22.55
1500	9097	7.91	5.971a	1.854p	1.381	1.48	25.02
1600	10644	9.26	6.013a	1.933p	1.443	1.32	27.12
1700	12234	10.64	6.047a	2.001p	1.503	1.18	28.83
1800	13853	12.05	6.074a	2.059p	1.562	1.06	30.16
1900	15496	13.48	6.097a	2.109p	1.620	0.96	31.24
2000	17158	14.93	6.117a	2.153p	1.677	0.87	32.10
2100	18835	16.39	6.134a	2.191p	1.733	0.81	32.79
2200	20524	17.86	6.148a	2.225p	1.789	0.75	33.32
2245	21254	18.49	6.154a	2.238p	1.812		

Soundings in mm.---------- ---------- Other distances in meters .----------

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21/9/2009 16:35:04 Robert Allan Ltd
GHS 11.38C SMIT - REBRAS RAMPARTS 3000 TUG - SMIT CARAJÁ (HULL 326)
AFT DOUBLE BOTTOM FUEL OIL TANK - STARBOARD

TANK CHARACTERISTICS
No Trim No Heel
Tank : FO_AFT.S , Contents: FUEL OIL at 0.87 Specific Gravity

Snding	Volume LITERS	Weight METRIC TON	Center of Gravity LCG	TCG	VCG	GML	FSM m.-MT
0	2	0.00	4.740a	0.214s	0.479	0.07	0.00
100	18	0.02	4.850a	0.318s	0.524	0.21	0.01
200	52	0.05	4.925a	0.385s	0.579	0.59	0.05
300	119	0.10	5.016a	0.476s	0.630	0.89	0.17
400	220	0.19	5.090a	0.571s	0.681	1.07	0.38
500	369	0.32	5.170a	0.669s	0.731	1.34	0.79
600	569	0.50	5.244a	0.769s	0.782	1.51	1.41
700	833	0.72	5.320a	0.870s	0.833	1.75	2.39
800	1165	1.01	5.392a	0.972s	0.883	1.91	3.73
900	1574	1.37	5.465a	1.074s	0.934	2.14	5.64
1000	2067	1.80	5.537a	1.176s	0.985	2.30	8.05
1100	2662	2.32	5.610a	1.277s	1.036	2.40	10.63
1200	3407	2.96	5.681a	1.384s	1.091	2.28	13.17
1300	4310	3.75	5.751a	1.491s	1.149	2.11	15.79
1400	5374	4.68	5.817a	1.594s	1.209	1.92	18.13
1500	6595	5.74	5.878a	1.693s	1.270	1.75	20.56
1600	7949	6.92	5.933a	1.786s	1.332	1.59	23.07
1700	9414	8.19	5.980a	1.871s	1.394	1.44	25.54
1800	10960	9.53	6.020a	1.947s	1.455	1.30	27.52
1900	12556	10.92	6.053a	2.013s	1.515	1.15	29.10
2000	14180	12.34	6.079a	2.070s	1.574	1.04	30.37
2100	15827	13.77	6.101a	2.119s	1.632	0.94	31.45
2200	17493	15.22	6.120a	2.161s	1.688	0.86	32.27
2300	19173	16.68	6.137a	2.198s	1.744	0.79	32.90
2400	20863	18.15	6.151a	2.231s	1.800	0.73	33.37
2424	21254	18.49	6.154a	2.238s	1.812		

Soundings in mm.---------- ---------- Other distances in meters ----------

TQ 03 BB . O.D

21/9/2009 16:35:04 Robert Allan Ltd

GHS 11.38C SMIT - REBRAS RAMPARTS 3000 TUG - SMIT CARAJÁ (HULL 326)

DOUBLE BOTTOM FUEL OIL TANK - PORT

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DUPLO FB

TANK CHARACTERISTICS

No Trim No Heel

Tank :FO_DB.P , Contents: FUEL OIL at 0.87 Specific Gravity

Snding	Volume LITERS	Weight METRIC TON	Center of Gravity LCG	TCG	VCG	GML	FSM m.-MT
0	19	0.02	0.138f	2.087p	0.342	48.06	0.02
100	162	0.14	0.321f	2.204p	0.392	48.46	0.10
200	492	0.43	0.426f	2.323p	0.442	42.86	0.44
300	1026	0.89	0.468f	2.437p	0.490	36.51	1.19
400	1754	1.53	0.455f	2.550p	0.538	30.22	2.59
500	2676	2.33	0.426f	2.667p	0.585	25.61	4.87
600	3784	3.29	0.395f	2.784p	0.631	21.90	7.41
700	5010	4.36	0.365f	2.879p	0.676	18.66	8.66
800	6308	5.49	0.341f	2.951p	0.719	16.16	9.73
900	7660	6.66	0.327f	3.009p	0.760	14.09	10.69
1000	9053	7.88	0.318f	3.056p	0.801	12.31	11.54
1100	10479	9.12	0.312f	3.096p	0.841	10.91	12.40
1200	11937	10.39	0.307f	3.131p	0.880	9.80	13.30
1300	13427	11.68	0.302f	3.162p	0.919	8.92	14.25
1400	14948	13.00	0.299f	3.191p	0.959	8.20	15.24
1500	16499	14.35	0.296f	3.218p	0.998	7.59	16.08
1600	18071	15.72	0.293f	3.243p	1.037	7.05	16.51
1700	19710	17.15	0.291f	3.265p	1.076	6.56	16.82
1800	21593	18.79	0.293f	3.288p	1.122	6.24	17.70
1900	23711	20.63	0.299f	3.312p	1.171	5.73	17.90
2000	25966	22.59	0.304f	3.334p	1.223	5.26	18.07
2100	28304	24.62	0.310f	3.353p	1.277	4.85	18.24
2182	30231	26.30	0.314f	3.367p	1.320		

Soundings in mm.---------- ---------- Other distances in meters .----------

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21/9/2009 16:35:04 Robert Allan Ltd
GHS 11.38C SMIT - REBRAS RAMPARTS 3000 TUG - SMIT CARAJÁ (HULL 326)
DOUBLE BOTTOM FUEL OIL TANK - CENTRE

DUPLO CENTRAL 10

TANK CHARACTERISTICS
No Trim No Heel
Tank - 10 :FO_DB.C , Contents: FUEL OIL at 0.87 Specific Gravity

Snding	Volume LITERS	Weight METRIC TON	Center of Gravity LCG	TCG	VCG	GML	FSM m.-MT
0	0	0.00					
100	215	0.19	0.315f	0.000	0.057	52.10	0.57
200	731	0.64	0.306f	0.000	0.099	34.12	2.41
300	1533	1.33	0.224f	0.000	0.143	27.60	6.66
400	2641	2.30	0.135f	0.000	0.187	23.44	14.45
500	4035	3.51	0.067f	0.000	0.230	19.60	23.17
600	5573	4.85	0.007f	0.000	0.271	15.73	25.74
700	7162	6.23	0.048a	0.000	0.310	12.89	27.12
800	8772	7.63	0.090a	0.000	0.347	10.74	27.72
900	10398	9.05	0.122a	0.000	0.382	9.06	27.72
1000	12137	10.56	0.146a	0.000	0.420	7.76	27.72
1100	14022	12.20	0.166a	0.000	0.460	6.72	27.72
1200	16066	13.98	0.182a	0.000	0.503	5.87	27.72
1300	18223	15.85	0.195a	0.000	0.549	5.17	27.72
1400	20492	17.83	0.206a	0.000	0.596	4.60	27.72
1500	22838	19.87	0.215a	0.000	0.644	4.13	27.72
1600	25242	21.96	0.222a	0.000	0.694	3.73	27.72
1700	27680	24.08	0.228a	0.000	0.745	3.40	27.72
1800	30129	26.21	0.233a	0.000	0.795	3.13	27.72
1900	32578	28.34	0.238a	0.000	0.845	2.89	27.72
2000	35026	30.47	0.241a	0.000	0.896	2.69	27.72
2100	37475	32.60	0.245a	0.000	0.946	2.51	27.72
2200	39924	34.73	0.248a	0.000	0.996	2.36	27.72
2300	42373	36.86	0.250a	0.000	1.046	2.22	27.72
2400	44451	38.67	0.252a	0.000	1.089		

Soundings in mm. Other distances in meters

TQ BE 04 ARM. O.D

21/9/2009 16:35:04 Robert Allan Ltd
GHS 11.38C SMIT - REBRAS RAMPARTS 3000 TUG - SMIT CARAJÁ (HULL 326)
DOUBLE BOTTOM FUEL OIL TANK - STARBOARD

DUPLO BE 04

TANK CHARACTERISTICS
No Trim No Heel
Tank :FO_DB.S , Contents: FUEL OIL at 0.87 Specific Gravity

Snding	Volume LITERS	Weight METRIC TON	Center of Gravity LCG	TCG	VCG	GML	FSM m.-MT
0	19	0.02	0.138f	2.087s	0.342	48.06	0.02
100	162	0.14	0.321f	2.204s	0.392	48.46	0.10
200	492	0.43	0.426f	2.323s	0.442	42.86	0.44
300	1026	0.89	0.467f	2.437s	0.490	36.71	1.20
400	1761	1.53	0.438f	2.549s	0.538	31.50	2.63
500	2703	2.35	0.384f	2.663s	0.585	28.00	5.02
600	3859	3.36	0.314f	2.778s	0.633	25.29	7.79
700	5170	4.50	0.248f	2.872s	0.679	22.62	9.31
800	6591	5.73	0.187f	2.946s	0.723	20.27	10.56
900	8102	7.05	0.134f	3.006s	0.766	18.19	11.77
1000	9683	8.42	0.088f	3.057s	0.808	16.26	12.92
1100	11321	9.85	0.049f	3.102s	0.850	14.49	14.03
1200	13004	11.31	0.017f	3.140s	0.890	13.03	15.14
1300	14728	12.81	0.008a	3.175s	0.931	11.79	16.25
1400	16492	14.35	0.029a	3.206s	0.971	10.80	17.41
1500	18295	15.92	0.046a	3.235s	1.010	9.97	18.43
1600	20125	17.51	0.061a	3.261s	1.050	9.25	19.06
1700	22040	19.17	0.073a	3.286s	1.090	8.61	19.56
1800	24222	21.07	0.085a	3.310s	1.136	7.98	20.01
1900	26643	23.18	0.096a	3.333s	1.185	7.35	20.36
2000	29225	25.43	0.106a	3.354s	1.237	6.75	20.60
2100	31904	27.76	0.113a	3.373s	1.290	6.21	20.78
2200	34110	29.68	0.119a	3.387s	1.333		

Soundings in mm.---------- ---------- Other distances in meters .----------

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21/9/2009 16:35:04 Robert Allan Ltd

GHS 11.38C SMIT - REBRAS RAMPARTS 3000 TUG - SMIT CARAJÁ (HULL 326)

LUBE OIL TANK - STARBOARD

TANK CHARACTERISTICS

No Trim No Heel

Tank : LUBE_OIL.S , Contents: LUBE OIL at 0.924 Specific Gravity

Snding	Volume LITERS	Weight METRIC TON	Center of Gravity LCG	TCG	VCG	GML	FSM m.-MT
0	0	0.00					
100	122	0.11	3.547f	4.410s	2.928	1.58	0.08
200	244	0.23	3.547f	4.410s	2.978	0.79	0.08
300	366	0.34	3.547f	4.410s	3.028	0.53	0.08
400	488	0.45	3.547f	4.410s	3.078	0.39	0.08
500	609	0.56	3.547f	4.410s	3.128	0.32	0.08
600	731	0.68	3.547f	4.410s	3.178	0.26	0.08
700	853	0.79	3.547f	4.410s	3.228	0.23	0.08
800	975	0.90	3.547f	4.410s	3.278	0.20	0.08
900	1097	1.01	3.547f	4.410s	3.328	0.18	0.08
1000	1219	1.13	3.547f	4.410s	3.378	0.16	0.08
1100	1341	1.24	3.547f	4.410s	3.428	0.14	0.08
1200	1463	1.35	3.547f	4.410s	3.478	0.13	0.08
1300	1585	1.46	3.547f	4.410s	3.528	0.12	0.08
1400	1707	1.58	3.547f	4.410s	3.578	0.11	0.08
1500	1828	1.69	3.547f	4.410s	3.628	0.11	0.08
1600	1950	1.80	3.547f	4.410s	3.678	0.10	0.08
1700	2072	1.91	3.547f	4.410s	3.728	0.09	0.08
1800	2194	2.03	3.547f	4.410s	3.778	0.09	0.08
1900	2316	2.14	3.547f	4.410s	3.828	0.08	0.08
1991	2423	2.24	3.547f	4.410s	3.872		

Soundings in mm.---------- ---------- Other distances in meters .----------

LUBE_OIL.S Reference Point: Long.= 3.547f Trans.= 4.410s Vert.= 2.878

(Zero Sounding is at the Reference Point.)

21/9/2009 16:35:04 Robert Allan Ltd
GHS 11.38C SMIT - REBRAS RAMPARTS 3000 TUG - SMIT CARAJÁ (HULL 326)
OILY WATER TANK - STARBOARD *

AGUAS OLEOSAS
TQ P

TANK CHARACTERISTICS
No Trim No Heel
Tank :OILY_WTR.S , Contents: OILY WATER at 1.025 Specific Gravity

Snding	Volume LITERS	Weight METRIC TON	Center of Gravity LCG	TCG	VCG	GML	FSM m.-MT
0	37	0.04	3.820a	0.339s	0.353	0.62	0.04
100	88	0.09	3.916a	0.420s	0.398	0.99	0.13
200	162	0.17	3.967a	0.512s	0.442	0.81	0.28
300	259	0.27	4.000a	0.610s	0.484	0.64	0.44
400	374	0.38	4.026a	0.699s	0.524	0.52	0.64
500	503	0.52	4.046a	0.773s	0.562	0.42	0.73
600	637	0.65	4.063a	0.827s	0.598	0.36	0.83
700	775	0.79	4.075a	0.868s	0.633	0.29	0.84
800	914	0.94	4.084a	0.896s	0.667	0.25	0.84
900	1052	1.08	4.090a	0.916s	0.699	0.22	0.84
1000	1190	1.22	4.095a	0.931s	0.732	0.19	0.84
1100	1328	1.36	4.099a	0.943s	0.764	0.17	0.84
1200	1466	1.50	4.102a	0.952s	0.795	0.16	0.84
1300	1604	1.64	4.105a	0.960s	0.827	0.14	0.84
1400	1742	1.79	4.107a	0.967s	0.858	0.13	0.84
1500	1881	1.93	4.109a	0.973s	0.889	0.12	0.84
1600	2019	2.07	4.111a	0.978s	0.920	0.11	0.84
1700	2159	2.21	4.112a	0.982s	0.952	0.11	0.84
1800	2327	2.39	4.113a	0.987s	0.989	0.10	0.84
1900	2518	2.58	4.115a	0.991s	1.032	0.09	0.84
2000	2727	2.80	4.116a	0.995s	1.079	0.08	0.84
2100	2948	3.02	4.118a	0.999s	1.128	0.08	0.84
2200	3173	3.25	4.119a	1.002s	1.178	0.07	0.84
2300	3399	3.48	4.120a	1.005s	1.228	0.07	0.84
2318	3435	3.52	4.120a	1.005s	1.236		

Soundings in mm.---------- Other distances in meters .----------

21/9/2009 16:35:04 Robert Allan Ltd
GHS 11.38C SMIT - REBRAS RAMPARTS 3000 TUG - SMIT CARAJÁ (HULL 326) ? OLEO SUJO
WASTE OIL TANK - PORT

TANK CHARACTERISTICS
No Trim No Heel
Tank WASTE_OIL.P , Contents: WASTE OIL at 0.924 Specific Gravity

Snding	Volume LITERS	Weight METRIC TON	Center of Gravity LCG	TCG	VCG	GML	FSM m.-MT
0	43	0.04	3.834a	0.350p	0.360	0.64	0.04
100	109	0.10	3.935a	0.448p	0.413	0.93	0.15
200	208	0.19	3.984a	0.562p	0.463	0.72	0.33
300	334	0.31	4.018a	0.670p	0.510	0.55	0.51
400	482	0.45	4.043a	0.763p	0.556	0.43	0.65
500	639	0.59	4.063a	0.828p	0.599	0.35	0.75
600	801	0.74	4.077a	0.874p	0.640	0.28	0.76
700	963	0.89	4.086a	0.903p	0.679	0.24	0.76
800	1125	1.04	4.093a	0.924p	0.717	0.20	0.76
900	1287	1.19	4.098a	0.940p	0.754	0.18	0.76
1000	1449	1.34	4.102a	0.951p	0.791	0.16	0.76
1100	1611	1.49	4.105a	0.961p	0.828	0.14	0.76
1200	1773	1.64	4.107a	0.969p	0.865	0.13	0.76
1300	1935	1.79	4.110a	0.975p	0.901	0.12	0.76
1400	2098	1.94	4.111a	0.980p	0.938	0.11	0.76
1500	2275	2.10	4.113a	0.985p	0.977	0.10	0.76
1600	2473	2.28	4.115a	0.990p	1.022	0.09	0.76
1700	2686	2.48	4.116a	0.994p	1.069	0.08	0.76
1800	2908	2.69	4.117a	0.998p	1.119	0.08	0.76
1900	3134	2.90	4.118a	1.002p	1.169	0.07	0.76
2000	3361	3.11	4.119a	1.004p	1.220	0.07	0.76
2100	3435	3.17	4.120a	1.005p	1.236		

Soundings in mm.---------- Other distances in meters .----------

ÁGUA POTÁVEL BB

21/9/2009 16:35:04 Robert Allan Ltd

GHS 11.38C SMIT - REBRAS RAMPARTS 3000 TUG - SMIT CARAJÁ (HULL 326)

FRESH WATER STORAGE TANK - PORT * AGUA POTAVEL

TANK CHARACTERISTICS

No Trim No Heel

Tank FRESH_WATER.P , Contents: FRESH WATER at 1.000 Specific Gravity

Snding	Volume LITERS	Weight METRIC TON	Center of Gravity LCG	TCG	VCG	GML	FSM m.-MT
0	8	0.01	6.000f	2.290p	0.695	0.77	0.00
100	17	0.02	6.068f	2.313p	0.724	1.06	0.00
200	30	0.03	6.113f	2.339p	0.751	1.08	0.01
300	47	0.05	6.155f	2.363p	0.778	1.19	0.01
400	70	0.07	6.203f	2.386p	0.805	1.30	0.02
500	97	0.10	6.242f	2.411p	0.832	1.40	0.04
600	130	0.13	6.279f	2.435p	0.859	1.47	0.06
700	170	0.17	6.317f	2.460p	0.886	1.53	0.08
800	217	0.22	6.357f	2.483p	0.913	1.59	0.11
900	270	0.27	6.391f	2.507p	0.939	1.61	0.14
1000	330	0.33	6.421f	2.530p	0.966	1.58	0.18
1100	396	0.40	6.449f	2.554p	0.992	1.53	0.23
1200	470	0.47	6.474f	2.577p	1.019	1.46	0.27
1300	570	0.57	6.502f	2.606p	1.051	1.37	0.34
1400	716	0.72	6.534f	2.643p	1.093	1.25	0.43
1500	908	0.91	6.567f	2.684p	1.142	1.12	0.52
1600	1146	1.15	6.599f	2.726p	1.196	0.99	0.62
1700	1418	1.42	6.626f	2.764p	1.252	0.87	0.72
1800	1706	1.71	6.648f	2.799p	1.306	0.77	0.83
1900	2011	2.01	6.666f	2.830p	1.360	0.69	0.95
2000	2330	2.33	6.680f	2.860p	1.413	0.63	1.08
2100	2664	2.66	6.691f	2.888p	1.466	0.58	1.22
2200	3014	3.01	6.701f	2.915p	1.518	0.53	1.38
2300	3378	3.38	6.710f	2.942p	1.571	0.49	1.52
2400	3755	3.75	6.718f	2.967p	1.624	0.46	1.64
2500	4143	4.14	6.726f	2.990p	1.676	0.43	1.75
2600	4540	4.54	6.733f	3.012p	1.728	0.40	1.85
2700	4946	4.95	6.739f	3.033p	1.780	0.38	1.94
2800	5359	5.36	6.745f	3.052p	1.831	0.35	2.03
2900	5778	5.78	6.750f	3.069p	1.882	0.33	2.13
3000	6205	6.20	6.755f	3.086p	1.932	0.32	2.23
3100	6638	6.64	6.759f	3.102p	1.983	0.30	2.33
3200	7078	7.08	6.763f	3.118p	2.033	0.29	2.43
3300	7524	7.52	6.766f	3.132p	2.083	0.27	2.53
3400	7977	7.98	6.770f	3.147p	2.133	0.26	2.63
3500	8436	8.44	6.773f	3.160p	2.184	0.25	2.72
3600	8901	8.90	6.776f	3.173p	2.234	0.24	2.82
3700	9373	9.37	6.778f	3.186p	2.284	0.23	2.92
3800	9866	9.87	6.781f	3.199p	2.335	0.22	3.02
3900	10392	10.39	6.784f	3.212p	2.390	0.21	3.13
4000	10942	10.94	6.786f	3.225p	2.446	0.21	3.25
4100	11507	11.51	6.789f	3.238p	2.503	0.20	3.36
4200	12081	12.08	6.791f	3.251p	2.560	0.19	3.47
4300	12661	12.66	6.794f	3.263p	2.617	0.18	3.58
4400	13248	13.25	6.796f	3.275p	2.674	0.18	3.68
4448	13520	13.52	6.797f	3.280p	2.700		

Soundings in mm.---------- Other distances in meters ----------

TQ AGUA POTAVEL BE

21/9/2009 16:35:04 Robert Allan Ltd

GHS 11.38C SMIT - REBRAS RAMPARTS 3000 TUG - SMIT CARAJÁ (HULL 326)

FRESH WATER STORAGE TANK - STARBOARD * AGUA POTAVEL

TANK CHARACTERISTICS

No Trim No Heel

Tank FRESH_WATER.S , Contents: FRESH WATER at 1.000 Specific Gravity

Snding	Volume LITERS	Weight METRIC TON	Center of Gravity LCG	TCG	VCG	GML	FSM m.-MT
0	8	0.01	6.000f	2.290s	0.695	0.77	0.00
100	17	0.02	6.068f	2.313s	0.724	1.06	0.00
200	30	0.03	6.113f	2.339s	0.751	1.08	0.01
300	47	0.05	6.155f	2.363s	0.778	1.19	0.01
400	70	0.07	6.203f	2.386s	0.805	1.30	0.02
500	97	0.10	6.242f	2.411s	0.832	1.40	0.04
600	130	0.13	6.279f	2.435s	0.859	1.47	0.06
700	170	0.17	6.317f	2.460s	0.886	1.53	0.08
800	217	0.22	6.357f	2.483s	0.913	1.59	0.11
900	270	0.27	6.391f	2.507s	0.939	1.61	0.14
1000	330	0.33	6.421f	2.530s	0.966	1.58	0.18
1100	396	0.40	6.449f	2.554s	0.992	1.53	0.23
1200	470	0.47	6.474f	2.577s	1.019	1.46	0.27
1300	570	0.57	6.502f	2.606s	1.051	1.37	0.34
1400	716	0.72	6.534f	2.643s	1.093	1.25	0.43
1500	908	0.91	6.567f	2.684s	1.142	1.12	0.52
1600	1146	1.15	6.599f	2.726s	1.196	0.99	0.62
1700	1418	1.42	6.626f	2.764s	1.252	0.87	0.72
1800	1706	1.71	6.648f	2.799s	1.306	0.77	0.83
1900	2011	2.01	6.666f	2.830s	1.360	0.69	0.95
2000	2330	2.33	6.680f	2.860s	1.413	0.63	1.08
2100	2664	2.66	6.691f	2.888s	1.466	0.58	1.22
2200	3014	3.01	6.701f	2.915s	1.518	0.53	1.38
2300	3378	3.38	6.710f	2.942s	1.571	0.49	1.52
2400	3755	3.75	6.718f	2.967s	1.624	0.46	1.64
2500	4143	4.14	6.726f	2.990s	1.676	0.43	1.75
2600	4540	4.54	6.733f	3.012s	1.728	0.40	1.85
2700	4946	4.95	6.739f	3.033s	1.780	0.38	1.94
2800	5359	5.36	6.745f	3.052s	1.831	0.35	2.03
2900	5778	5.78	6.750f	3.069s	1.882	0.33	2.13
3000	6205	6.20	6.755f	3.086s	1.932	0.32	2.23
3100	6638	6.64	6.759f	3.102s	1.983	0.30	2.33
3200	7078	7.08	6.763f	3.118s	2.033	0.29	2.43
3300	7524	7.52	6.766f	3.132s	2.083	0.27	2.53
3400	7977	7.98	6.770f	3.147s	2.133	0.26	2.63
3500	8436	8.44	6.773f	3.160s	2.184	0.25	2.72
3600	8901	8.90	6.776f	3.173s	2.234	0.24	2.82
3700	9373	9.37	6.778f	3.186s	2.284	0.23	2.92
3800	9866	9.87	6.781f	3.199s	2.335	0.22	3.02
3900	10392	10.39	6.784f	3.212s	2.390	0.21	3.13
4000	10942	10.94	6.786f	3.225s	2.446	0.21	3.25
4100	11507	11.51	6.789f	3.238s	2.503	0.20	3.36
4200	12081	12.08	6.791f	3.251s	2.560	0.19	3.47
4300	12661	12.66	6.794f	3.263s	2.617	0.18	3.58
4400	13248	13.25	6.796f	3.275s	2.674	0.18	3.68
4448	13520	13.52	6.797f	3.280s	2.700		

Soundings in mm.---------- ---------- Other distances in meters .----------

21/9/2009 16:35:04 Robert Allan Ltd

GHS 11.38C SMIT - REBRAS RAMPARTS 3000 TUG - SMIT CARAJÁ (HULL 326)

FIRE-FIGHTING FOAM TANK - CENTRE

? Tq ... 15 ...
COMBAT 1 ...

TANK CHARACTERISTICS

No Trim No Heel

Tank FF_FOAM.C , Contents: FOAM at 1.000 Specific Gravity

Snding	Volume LITERS	Weight METRIC TON	Center of Gravity LCG	TCG	VCG	GML	FSM m.-MT
0	20	0.02	3.962f	0.000	0.108	4.57	0.06
100	169	0.17	4.079f	0.000	0.170	1.22	0.63
200	432	0.43	4.095f	0.000	0.234	0.74	2.33
300	806	0.81	4.102f	0.000	0.299	0.52	5.43
400	1251	1.25	4.111f	0.000	0.361	0.36	6.58
500	1704	1.70	4.117f	0.000	0.417	0.27	6.58
600	2156	2.16	4.120f	0.000	0.470	0.21	6.58
700	2608	2.61	4.122f	0.000	0.523	0.17	6.58
800	3061	3.06	4.124f	0.000	0.574	0.15	6.58
900	3513	3.51	4.125f	0.000	0.625	0.13	6.58
1000	3965	3.97	4.126f	0.000	0.676	0.11	6.58
1100	4418	4.42	4.127f	0.000	0.727	0.10	6.58
1200	4870	4.87	4.127f	0.000	0.778	0.09	6.58
1300	5323	5.32	4.128f	0.000	0.828	0.09	6.58
1400	5775	5.77	4.128f	0.000	0.879	0.08	6.58
1500	6227	6.23	4.128f	0.000	0.929	0.07	6.58
1600	6680	6.68	4.129f	0.000	0.979	0.07	6.58
1700	7132	7.13	4.129f	0.000	1.030	0.06	6.58
1800	7584	7.58	4.129f	0.000	1.080	0.06	6.58
1879	7937	7.94	4.129f	0.000	1.119		

Soundings in mm.---------- ---------- Other distances in meters .----------

TANQUE

21/9/2009 16:35:04 Robert Allan Ltd
GHS 11.38C SMIT - REBRAS RAMPARTS 3000 TUG - SMIT CARAJÁ (HULL 326)
SEWAGE TANK - CENTRE

TANQUE
ESGOTO

TANK CHARACTERISTICS
No Trim No Heel
Tank SEWAGE.C , Contents: SEWAGE at 1.000 Specific Gravity

Snding	Volume LITERS	Weight METRIC TON	Center of Gravity LCG	TCG	VCG	GML	FSM m.-MT
0	0	0.00					
100	105	0.11	8.802f	0.000	1.403	0.57	0.15
200	211	0.21	8.802f	0.000	1.453	0.28	0.15
300	316	0.32	8.802f	0.000	1.503	0.19	0.15
400	421	0.42	8.802f	0.000	1.553	0.14	0.15
500	527	0.53	8.802f	0.000	1.603	0.11	0.15
600	632	0.63	8.802f	0.000	1.653	0.09	0.15
700	737	0.74	8.802f	0.000	1.703	0.08	0.15
800	843	0.84	8.802f	0.000	1.753	0.07	0.15
900	948	0.95	8.802f	0.000	1.803	0.06	0.15
1000	1053	1.05	8.802f	0.000	1.853	0.06	0.15
1100	1159	1.16	8.802f	0.000	1.903	0.05	0.15
1200	1264	1.26	8.802f	0.000	1.953	0.05	0.15
1300	1369	1.37	8.802f	0.000	2.003	0.04	0.15
1400	1475	1.47	8.802f	0.000	2.053	0.04	0.15
1500	1580	1.58	8.802f	0.000	2.103	0.04	0.15
1600	1685	1.69	8.802f	0.000	2.153	0.04	0.15
1700	1791	1.79	8.802f	0.000	2.203	0.03	0.15
1800	1896	1.90	8.802f	0.000	2.253	0.03	0.15
1876	1974	1.97	8.802f	0.000	2.290		

Soundings in mm.---------- ---------- Other distances in meters .----------
SEWAGE.C Reference Point: Long.= 8.802f Trans.= 0.000 Vert.= 1.353
(Zero Sounding is at the Reference Point.)

21/9/2009 16:35:04 Robert Allan Ltd
GHS 11.38C SMIT - REBRAS RAMPARTS 3000 TUG - SMIT CARAJÁ (HULL 326)
FUEL OIL OVERFLOW TANK - PORT

TANK CHARACTERISTICS
No Trim No Heel
Tank FO_OF.P , Contents: FUEL OIL at 0.870 Specific Gravity

Snding	Volume LITERS	Weight METRIC TON	Center of Gravity LCG	TCG	VCG	GML	FSM m.-MT
0	30	0.03	3.809a	2.306p	0.668	0.60	0.02
100	62	0.05	3.881a	2.384p	0.707	0.80	0.06
200	108	0.09	3.921a	2.470p	0.744	0.82	0.12
300	168	0.15	3.954a	2.558p	0.780	0.74	0.23
400	245	0.21	3.980a	2.649p	0.816	0.65	0.39
500	338	0.29	4.000a	2.743p	0.851	0.57	0.61
600	446	0.39	4.015a	2.834p	0.885	0.50	0.83
700	567	0.49	4.030a	2.919p	0.918	0.44	1.08
800	698	0.61	4.042a	2.993p	0.951	0.38	1.22
900	835	0.73	4.052a	3.055p	0.982	0.34	1.38
1000	977	0.85	4.060a	3.106p	1.012	0.30	1.47
1100	1122	0.98	4.067a	3.148p	1.042	0.26	1.56
1200	1283	1.12	4.073a	3.187p	1.073	0.23	1.66
1300	1476	1.28	4.078a	3.226p	1.109	0.21	1.78
1400	1703	1.48	4.082a	3.265p	1.151	0.19	1.92
1500	1960	1.70	4.086a	3.304p	1.196	0.17	2.09
1600	2245	1.95	4.090a	3.342p	1.245	0.15	2.28
1700	2556	2.22	4.093a	3.378p	1.296	0.13	2.43
1800	2888	2.51	4.096a	3.411p	1.350	0.12	2.50
1900	3228	2.81	4.098a	3.439p	1.404	0.11	2.52
1991	3533	3.07	4.100a	3.459p	1.452		

Soundings in mm.---------- ---------- Other distances in meters .----------

TQ CENTRAL

AGUA POTAVEL
VANTE

21/9/2009 16:35:04 Robert Allan Ltd
GHS 11.38C SMIT - REBRAS RAMPARTS 3000 TUG - SMIT CARAJÁ (HULL 326)
FOREPEAK - CENTRE

TANK CHARACTERISTICS
No Trim No Heel
Tank FOREPEAK.C , Contents: FRESH WATER at 1.000 Specific Gravity *

Snding	Volume LITERS	Weight METRIC TON	Center of Gravity LCG	TCG	VCG	GML	FSM m.-MT
0	0	0.00					
100	5	0.01	11.877f	0.000	1.404	0.02	0.00
200	25	0.03	11.928f	0.000	1.466	0.03	0.01
300	66	0.07	11.979f	0.000	1.530	0.06	0.02
400	126	0.13	12.022f	0.000	1.606	0.15	0.08
500	202	0.20	12.054f	0.000	1.686	0.17	0.13
600	303	0.30	12.088f	0.000	1.760	0.19	0.22
700	433	0.43	12.123f	0.000	1.831	0.22	0.34
800	595	0.60	12.160f	0.000	1.901	0.24	0.49
900	782	0.78	12.188f	0.000	1.973	0.24	0.68
1000	996	1.00	12.213f	0.000	2.046	0.26	0.92
1100	1244	1.24	12.238f	0.000	2.118	0.27	1.23
1200	1528	1.53	12.264f	0.000	2.190	0.28	1.57
1300	1851	1.85	12.291f	0.000	2.261	0.30	1.97
1400	2213	2.21	12.318f	0.000	2.332	0.31	2.42
1500	2608	2.61	12.343f	0.000	2.402	0.30	2.92
1600	3031	3.03	12.363f	0.000	2.473	0.31	3.51
1700	3495	3.49	12.384f	0.000	2.544	0.32	4.19
1800	4000	4.00	12.405f	0.000	2.615	0.33	4.96
1900	4550	4.55	12.426f	0.000	2.686	0.34	5.84
2000	5146	5.15	12.448f	0.000	2.758	0.35	6.83
2100	5792	5.79	12.471f	0.000	2.829	0.36	7.90
2200	6488	6.49	12.493f	0.000	2.900	0.37	9.08
2300	7214	7.21	12.513f	0.000	2.971	0.35	10.23
2400	7985	7.98	12.532f	0.000	3.042	0.36	11.54
2500	8804	8.80	12.551f	0.000	3.114	0.37	12.94
2600	9674	9.67	12.571f	0.000	3.185	0.38	14.48
2700	10597	10.60	12.591f	0.000	3.256	0.39	16.17
2800	11575	11.58	12.611f	0.000	3.328	0.40	18.00
2900	12610	12.61	12.632f	0.000	3.399	0.41	20.00
3000	13703	13.70	12.653f	0.000	3.471	0.42	22.15
3100	14843	14.84	12.673f	0.000	3.542	0.40	24.28
3200	16024	16.02	12.691f	0.000	3.613	0.40	26.63
3300	17264	17.26	12.710f	0.000	3.685	0.41	29.14
3400	18564	18.56	12.729f	0.000	3.756	0.43	31.83
3500	19926	19.93	12.748f	0.000	3.828	0.44	34.70
3600	21352	21.35	12.768f	0.000	3.900	0.44	37.76
3700	22841	22.84	12.788f	0.000	3.971	0.45	41.05
3800	24397	24.40	12.808f	0.000	4.043	0.46	44.55
3900	26021	26.02	12.828f	0.000	4.115	0.48	48.22
4000	27713	27.71	12.849f	0.000	4.187	0.48	52.02
4100	29431	29.43	12.866f	0.000	4.258	0.44	55.48
4200	31197	31.20	12.883f	0.000	4.329	0.43	59.41
4300	33012	33.01	12.898f	0.000	4.399	0.42	63.52
4400	34875	34.88	12.913f	0.000	4.469	0.41	67.84
4500	36787	36.79	12.928f	0.000	4.538	0.40	72.39
4600	38744	38.74	12.941f	0.000	4.607	0.38	76.63
4700	40729	40.73	12.953f	0.000	4.675	0.37	77.97
4800	42716	42.72	12.965f	0.000	4.741	0.35	77.98
4900	44704	44.70	12.975f	0.000	4.806	0.33	77.99

TQ PK DE VAUTE
AGUA POTAVEL

21/9/2009 16:35:04 Robert Allan Ltd
GHS 11.38C SMIT - REBRAS RAMPARTS 3000 TUG - SMIT CARAJÁ (HULL 326)
FOREPEAK - CENTRE

TANK CHARACTERISTICS
No Trim No Heel
Tank FOREPEAK.C , Contents: FRESH WATER at 1.000 Specific Gravity *

Snding	Volume LITERS	Weight METRIC TON	Center of Gravity LCG	TCG	VCG	GML	FSM m.-MT
5000	46691	46.69	12.984f	0.000	4.869	0.32	78.00
5100	48679	48.68	12.993f	0.000	4.932	0.31	78.01
5200	50667	50.67	13.001f	0.000	4.993	0.29	78.01
5300	52655	52.66	13.008f	0.000	5.054	0.28	78.02
5400	54643	54.64	13.015f	0.000	5.114	0.27	78.03
5500	56632	56.63	13.022f	0.000	5.173	0.26	78.04
5600	58620	58.62	13.028f	0.000	5.232	0.25	78.05
5700	60284	60.28	13.038f	0.000	5.281	0.08	40.76
5800	61218	61.22	13.052f	0.000	5.308	0.01	14.24
5900	61581	61.58	13.060f	0.000	5.320	0.00	1.32

Soundings in mm.---------- ---------- Other distances in meters .----------
FOREPEAK.C Reference Point: Long.= 13.475f Trans.= 0.000 Vert.= 1.344
(Zero Sounding is at the Reference Point.)

21/9/2009 16:35:04 Robert Allan Ltd

GHS 11.38C SMIT - REBRAS RAMPARTS 3000 TUG - SMIT CARAJÁ (HULL 326)

AFT PEAK - CENTRE

TANK CHARACTERISTICS

No Trim No Heel

Tank AFTPEAK.C , Contents: FRESH WATER at 1.000 Specific Gravity

Snding	Volume LITERS	Weight METRIC TON	Center of Gravity LCG	TCG	VCG	GML	FSM m.-MT
0	0	0.00					
100	24	0.02	12.508a	0.000	2.376	0.13	0.05
200	117	0.12	12.594a	0.000	2.451	0.35	0.55
300	295	0.29	12.647a	0.000	2.523	0.39	2.07
400	589	0.59	12.698a	0.000	2.594	0.44	5.54
500	1017	1.02	12.747a	0.000	2.663	0.45	9.96
600	1499	1.50	12.771a	0.000	2.730	0.34	12.02
700	2074	2.07	12.801a	0.000	2.798	0.37	16.13
800	2750	2.75	12.834a	0.000	2.865	0.39	20.73
900	3534	3.53	12.870a	0.000	2.932	0.42	26.32
1000	4426	4.43	12.907a	0.000	2.998	0.44	32.51
1100	5378	5.38	12.934a	0.000	3.064	0.39	37.24
1200	6444	6.44	12.965a	0.000	3.133	0.43	44.63
1300	7634	7.63	12.999a	0.000	3.201	0.47	52.93
1400	8949	8.95	13.034a	0.000	3.270	0.50	61.86
1500	10394	10.39	13.071a	0.000	3.338	0.53	72.33
1600	11916	11.92	13.102a	0.000	3.406	0.49	79.70
1700	13566	13.57	13.135a	0.000	3.475	0.53	90.64
1800	15356	15.36	13.170a	0.000	3.545	0.57	101.48
1900	17275	17.27	13.206a	0.000	3.614	0.60	111.03
2000	19315	19.32	13.244a	0.000	3.682	0.63	118.59
2100	21369	21.37	13.275a	0.000	3.748	0.49	114.33
2200	23391	23.39	13.299a	0.000	3.810	0.45	114.33
2300	25413	25.41	13.319a	0.000	3.871	0.41	114.33
2400	27435	27.44	13.336a	0.000	3.929	0.38	114.33
2500	29458	29.46	13.350a	0.000	3.987	0.36	114.33
2600	31480	31.48	13.363a	0.000	4.043	0.33	114.33
2700	33502	33.50	13.374a	0.000	4.099	0.31	114.33
2800	35524	35.52	13.384a	0.000	4.154	0.30	114.33
2900	37547	37.55	13.393a	0.000	4.209	0.28	114.33
3000	39569	39.57	13.401a	0.000	4.263	0.27	114.33
3100	41591	41.59	13.408a	0.000	4.317	0.25	114.33
3200	43612	43.61	13.415a	0.000	4.370	0.22	109.39
3300	44739	44.74	13.430a	0.000	4.400	0.01	26.88
3400	44870	44.87	13.433a	0.000	4.405	0.00	0.00

Soundings in mm.---------- Other distances in meters .----------

AFTPEAK.C Reference Point: Long.= 13.750a Trans.= 0.000 Vert.= 2.313

(Zero Sounding is at the Reference Point.)