

ANNEX 3: - STABILITY ASSESSMENT (UNKNOWN EMPTY/ FULL)

Stability calculations were produced after Phase 1 operations that took place in December, 2019. Please note that there are two sets of stability calculation in the annex below.

Stability Assessment #5

- Assuming all unknown tanks on the pollution table are empty.

Stability Assessment #6

- Assuming all unknown tanks on the pollution table are full.
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WEIGHT STATUS

Trim: Aft 2.77 deg., Heel: Stbd 1.28 deg.

Part	Weight(MT)	LCG	TCG	VCG
Total Fixed	1,205.83	2.797a	0.030s	4.600
Total Tanks	170.93	6.499a	0.237s	2.857
Total Weight	1,376.77	3.257a	0.056s	4.384

Distances in METERS.

HYDROSTATIC PROPERTIES

Trim: Aft 2.77 deg., Heel: Stbd 1.28 deg., VCG = 4.384

LCF Draft	Displacement Weight(MT)	Buoyancy-Ctr. LCB	VCB	Weightl cm	LCF	Momentl Deg trim	GML	GMT
4.230	1,376.72	3.329a	2.891	6.30	2.990a	3189.44	132.72	2.394

Distances in METERS. Specific Gravity = 1.000. Moment in m.-MT. Draft is from Baseline. True Free Surface included.

WEIGHT STATUS

Trim: Aft 2.77 deg., Heel: Stbd 1.28 deg.

Part	Weight(MT)	LCG	TCG	VCG	RefHt		
FIXED WEIGHT	1,205.83	2.797a	0.030s	4.600			
	Load	SpGr	Weight(MT)	LCG	TCG	VCG	RefHt
5FF_CD50-52.P	0.198	1.000	0.31	8.671 f	0.998p	0.991	-1.552
5FF_C50-52.S	0.846	1.000	1.32	8.709 f	1.073s	1.358	-2.228
5FF_CD86-87.C	1.000	1.000	2.01	12.931a	0.000	1.120	
6AT_FPEAK.C	0.160	1.000	6.00	33.539f	0.004s	2.052	-4.182
6BT_OF1.S	0.093	1.000	5.73	28.302f	0.702s	1.972	-3.733
6BT_OF3.S	0.006	1.000	0.36	23.385f	0.434s	1.224	-2.408
6BT_OF4.P	0.042	1.000	2.35	23.772f	0.706p	1.452	-2.840
6CT_OF8.P	0.339	1.000	4.02	18.826f	4.202p	4.257	-6.113
6DT_WB2.P	0.986	1.000	10.48	10.829f	2.161p	1.666	-2.845
6DT_WB3.S	1.000	1.000	10.63	10.840f	2.184s	1.674	
6DT_OF&WB1.S	0.712	1.000	8.14	7.186 f	2.198s	1.428	-2.103
6DT_OF&WB2.P	0.356	1.000	4.07	7.051 f	1.804p	1.218	-1.856
6ET_GREY.S	1.000	1.000	0.54	4.755 f	0.883s	1.334	
6ET_OF&WB3.S	0.768	1.000	7.59	4.048 f	2.131s	1.401	-1.935
6ET_OF&WB4.P	0.090	1.000	0.94	3.914 f	1.107p	0.925	-1.259
6ET_OF&WB5.S	1.000	1.000	19.02	0.359a	2.126s	1.416	
6ET_OF&WB6.P	0.479	1.000	9.11	0.806a	1.692p	1.152	-1.447
6FT_FW1.S	0.393	1.000	6.35	8.833a	1.278s	0.990	-0.761
6FT_FW2.P	0.063	1.000	1.02	10.002a	0.825p	0.747	-0.394
6GT_OF11.S	1.000	1.000	12.78	15.125a	3.782s	3.467	
6GT_OF13.S	1.000	1.000	9.19	21.198a	2.254s	3.387	
6GT_OF14.P	0.215	1.000	3.43	20.883a	0.985p	2.199	-1.670
6GT_SERVGEAR.C	0.049	0.890	0.07	19.393a	0.004s	0.281	0.585
6GT_APEAK.C	0.066	1.000	0.68	24.843a	0.008s	0.966	-0.391
6HT_OF16.P	0.424	1.000	9.21	28.150a	1.609p	4.948	-4.343
6HT_OF17.S	0.017	1.000	0.93	30.309a	0.703s	4.449	-3.086
6HT_OF18.P	0.635	1.000	34.65	32.010a	1.640p	5.704	-4.988
Total Tanks			170.93	6.499a	0.237s	2.857	
Total Weight			1,376.77	3.257a	0.056s	4.384	

Distances in METERS.

CRITICAL POINT STATUS

Baseline draft: 4.085 @ Origin
 Trim: Aft 2.77 deg., Heel: Stbd 1.28 deg.

Stability #6

WEIGHT STATUS

Trim: Aft 2.77 deg., Heel: Stbd 1.27 deg.

Part	Weight(MT)	LCG	TCG	VCG
Total Fixed	1,157.29	2.925a	0.039s	4.600
Total Tanks	219.57	5.030a	0.156s	2.534
Total Weight	1,376.86	3.261a	0.058s	4.271

Distances in METERS.

HYDROSTATIC PROPERTIES

Trim: Aft 2.77 deg., Heel: Stbd 1.27 deg., VCG = 4.271

LCF Draft	Displacement Weight(MT)	Buoyancy-Ctr. LCB	VCB	Weightl cm	LCF	Momentl Deg trim	GML	GMT
4.230	1,376.86	3.327a	2.891	6.30	2.990a	3191.90	132.81	2.502

Distances in METERS. Specific Gravity = 1.000. Moment in m.-MT.
 Draft is from Baseline. True Free Surface included.

WEIGHT STATUS

Trim: Aft 2.77 deg., Heel: Stbd 1.27 deg.

Part	Weight(MT)	LCG	TCG	VCG	RefHt		
FIXED WEIGHT	1,157.29	2.925a	0.039s	4.600			
	Load	SpGr	Weight(MT)	LCG	TCG	VCG	RefHt
5FF_CD39-40.C	1.000	1.000	5.46	15.733f	0.000	1.851	
5FF_CD44-45.C	1.000	1.000	5.24	12.685f	0.000	1.720	
5FF_CD50-52.P	0.209	1.000	0.33	8.674f	1.003p	0.998	-1.564
5FF_C50-52.S	0.834	1.000	1.30	8.708f	1.073s	1.352	-2.215
5FF_TUNF.C	1.000	1.000	6.21	8.376f	0.000	1.258	
5FF_TUNA.C	1.000	1.000	12.10	3.977a	0.000	1.022	
5FF_CD86-87.C	1.000	1.000	2.01	12.931a	0.000	1.120	
5FF_CD95-96.C	1.000	1.000	0.94	18.419a	0.000	0.972	
5FF_VAFT.C	1.000	1.000	7.09	23.544a	0.000	2.615	
6AT_FPEAK.C	0.173	1.000	6.48	33.546f	0.004s	2.093	-4.265
6BT_OF1.S	0.080	1.000	4.93	28.295f	0.685s	1.911	-3.643
6BT_OF3.S	0.010	1.000	0.60	23.530f	0.491s	1.258	-2.471
6BT_OF4.P	0.053	1.000	2.96	23.791f	0.762p	1.507	-2.934
6CT_OF8.P	0.358	1.000	4.24	18.848f	4.204p	4.305	-6.184
6DT_WB2.P	1.000	1.000	10.63	10.840f	2.184p	1.674	
6DT_WB3.S	1.000	1.000	10.63	10.840f	2.184s	1.674	
6DT_OF&WB1.S	0.750	1.000	8.58	7.195f	2.217s	1.448	-2.138
6DT_OF&WB2.P	0.466	1.000	5.33	7.102f	1.925p	1.289	-1.976
6ET_GREY.S	1.000	1.000	0.54	4.755f	0.883s	1.334	
6ET_OF&WB3.S	0.799	1.000	7.90	4.051f	2.146s	1.417	-1.963
6ET_OF&WB4.P	0.143	1.000	1.49	3.966f	1.249p	0.983	-1.355
6ET_OF&WB5.S	1.000	1.000	19.02	0.359a	2.126s	1.416	
6ET_OF&WB6.P	0.679	1.000	12.91	0.704a	1.852p	1.260	-1.637
6FT_FW1.S	0.629	1.000	10.17	8.528a	1.426s	1.103	-0.967
6FT_FW2.P	0.198	1.000	3.20	9.197a	1.032p	0.869	-0.624
6GT_OF11.S	1.000	1.000	12.78	15.125a	3.782s	3.467	

6GT_OF13.S	1.000	1.000	9.19	21.198a	2.254s	3.387	
6GT_OF14.P	0.197	1.000	3.15	20.877a	0.963p	2.160	-1.613
6GT_SERVGEAR.C	0.061	0.890	0.09	19.383a	0.004s	0.297	0.555
6GT_APEAK.C	0.066	1.000	0.68	24.843a	0.008s	0.966	-0.391
6HT_OF16.P	0.425	1.000	9.23	28.150a	1.611p	4.949	-4.346
6HT_OF17.S	0.014	1.000	0.77	30.237a	0.676s	4.420	-3.054
6HT_OF18.P	0.612	1.000	33.39	32.005a	1.624p	5.674	-4.936
Total Tanks			219.57	5.030a	0.156s	2.534	
Total Weight			1,376.86	3.261a	0.058s	4.271	
Distances in METERS.							

CRITICAL POINT STATUS

Baseline draft: 4.085 @ Origin

Trim: Aft 2.77 deg., Heel: Stbd 1.27 deg.