

**Salida de puerto 100% Consumos 0% Pesca.**

## Stability 20.00.03.9, build: 9

Free to Trim//Specific gravity = 1.025; (Density = 1.025 tonne/m<sup>3</sup>)//Fluid analysis method: Use corrected VCG

Item Name	Quantity	Unit Mass tonne	Total Mass tonne	Unit Volume m^3	Total Volume m^3	Long. Arm m	Trans. Arm m	Vert. Arm m	Total FSM tonne.m	FSM Type
ROSCA	1	313.000	313.000			13.500	0.000	3.700	0.000	User Specified
Pique de proa	100%	11.396	11.396	11.118	11.118	27.933	0.000	2.268	0.000	IMO A.749(18)
Combustible n1 ° Er	100%	12.404	12.404	14.767	14.767	24.445	1.273	2.383	0.000	IMO A.749(18)
Combustible n° 1 Br	100%	12.404	12.404	14.767	14.767	24.445	-1.273	2.383	0.000	IMO A.749(18)
Gas-oil n° 2 Er.	100%	8.573	8.573	10.206	10.206	20.329	1.025	0.835	0.000	IMO A.749(18)
Gas-oil n° 2 Br	100%	8.573	8.573	10.206	10.206	20.329	-1.025	0.835	0.000	IMO A.749(18)
Gas-oil n° 3 Er	100%	9.854	9.854	11.731	11.731	14.503	1.195	0.631	0.000	IMO A.749(18)
Gas-oil n° 3 Br	100%	9.854	9.854	11.731	11.731	14.503	-1.195	0.631	0.000	IMO A.749(18)
Gas-oil n° 4 Er	100%	6.951	6.951	8.274	8.274	1.032	2.355	3.216	0.000	IMO A.749(18)
Gas-oil n° 4 Br	100%	6.951	6.951	8.274	8.274	1.032	-2.355	3.216	0.000	IMO A.749(18)
Gas-oil n° 4 Central	100%	10.352	10.352	12.323	12.323	0.438	0.000	3.081	0.000	IMO A.749(18)
Agua dulce	100%	4.592	4.592	4.592	4.592	9.266	1.983	0.885	0.000	IMO A.749(18)
Gas-oil diario	100%	4.521	4.521	5.382	5.382	1.626	0.000	4.896	0.000	IMO A.749(18)
Aguas sucias	0%	1.271	0.000	1.271	0.000	8.491	-1.250	0.188	0.000	IMO A.749(18)
Lodos	0%	1.221	0.000	1.192	0.000	9.299	-1.250	0.174	0.000	IMO A.749(18)
Reboses	100%	1.945	1.945	2.130	2.130	10.268	-2.087	0.871	0.000	IMO A.749(18)
aceite lubricante	100%	3.296	3.296	3.296	3.296	2.501	-0.399	2.951	0.000	IMO A.749(18)
Aceite hidraulico	100%	1.196	1.196	1.196	1.196	2.501	1.099	2.953	0.000	IMO A.749(18)
ENTREPUESTE	0	0.000	0.000			0.000	0.000	0.000	0.000	User Specified
BODEGA	0%	124.821	0.000	156.026	0.000	11.959	0.000	1.172	0.000	User Specified
VIVERES	1	3.000	3.000			19.200	0.000	4.800	0.000	User Specified
TRIPULACION+EFFECTOS	1	2.100	2.100			22.500	0.000	7.100	0.000	User Specified
CABLE+MALLETA	1	6.000	6.000			17.000	0.000	7.600	0.000	User Specified
PORTAS DE ARRASTRE	1	1.600	1.600			-2.400	0.000	8.200	0.000	User Specified
PORTAS DE RESPETO	1	1.600	1.600			7.000	0.000	7.000	0.000	User Specified
APAREJO	1	2.200	2.200			15.000	0.000	6.900	0.000	User Specified
APAREJO DE RESPETO	1	2.200	2.200			0.000	0.000	8.700	0.000	User Specified
Total Loadcase			444.561	288.483	129.994	13.793	0.011	3.422	0.000	
FS correction								0.000		
VCG fluid								3.422		

Draft Amidships m	3.126
Displacement t	444.6
Volume (displaced) m <sup>3</sup>	433.718
Heel deg	0.9
Draft at FP m	2.995
Draft at AP m	3.256
Draft at LCF m	3.143
Trim (+ve by stern) m	0.261
Wetted Area m <sup>2</sup>	313.115
Waterpl. Area m <sup>2</sup>	214.081
Prismatic coeff. (Cp)	0.658
Block coeff. (Cb)	0.469
Max Sect. area coeff. (Cm)	0.803
Waterpl. area coeff. (Cwp)	0.862
LCB from zero pt. (+ve fwd) m	13.779
TCB m	0.035
VCB m	1.919
LCF from zero pt. (+ve fwd) m	12.556
KB m	1.919
KG fluid m	3.422
BMt m	2.257
BML m	31.872
GMt corrected m	0.754
GML m	30.369
KMt m	4.176
KML m	33.786
Immersion (TPc) tonne/cm	2.194
MTc tonne.m	4.655
RM at 1deg = GMt.Disp.sin(1) tonne.m	5.851
Max deck inclination deg	1.0289
Trim angle (+ve by stern) deg	0.5166

Key point	Type	Freeboard m
Margin Line (freeboard pos = -2.269 m)		2.687
Deck Edge (freeboard pos = -2.269 m)		2.763
PUERTA PUENTE	Downflooding point	5.101

### Stability Calculation - PFC\_ARRASTRERO\_GRAN\_SOL

Stability 20.00.03.9, build: 9

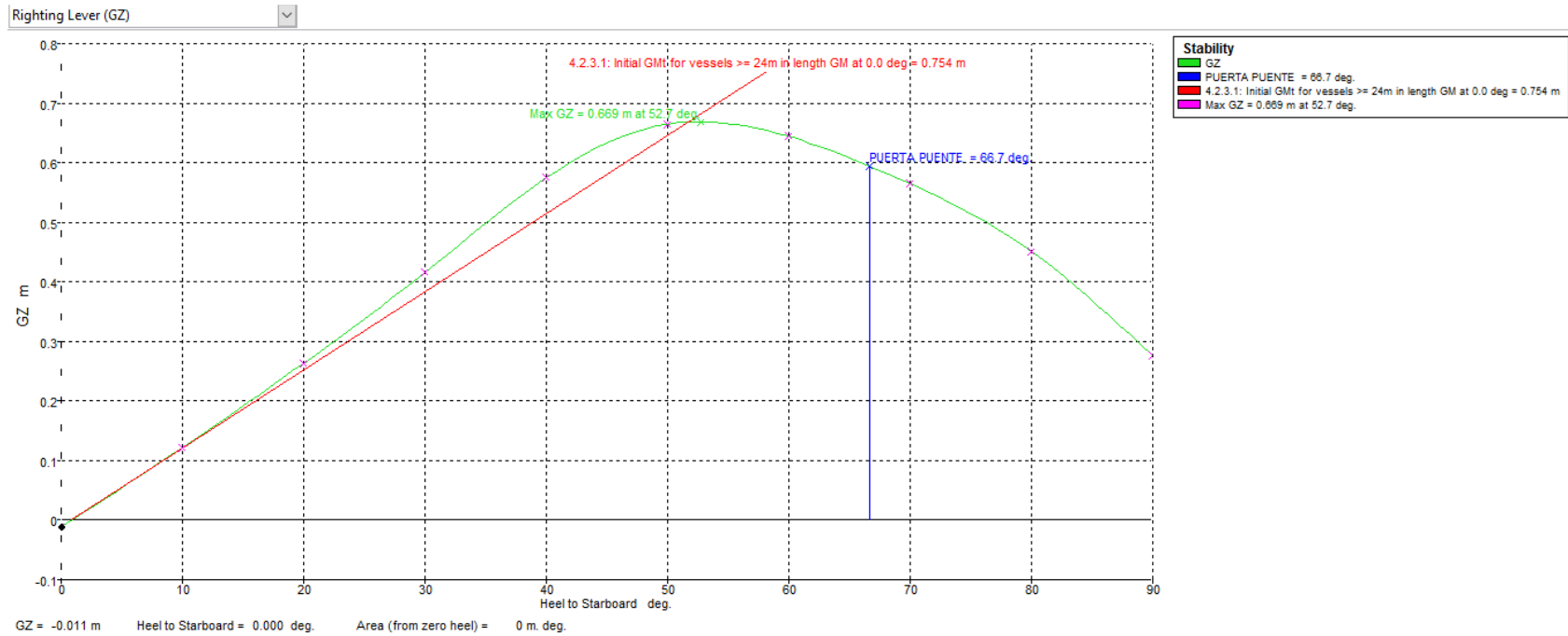
Damage Case - Intact|GUID|f14a5a3c-fe1d-48c3-a4e8-edc7a47cfd1

Free to Trim//Specific gravity = 1.025; (Density = 1.025 tonne/m<sup>3</sup>)//Fluid analysis method: Use corrected VCG

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Combustible n° 1 Br	100%	12.404	12.404	14.767	14.767	24.445	-1.273	2.383	0.000	IMO A.749(18)
Gas-oil n° 2 Er.	100%	8.573	8.573	10.206	10.206	20.329	1.025	0.835	0.000	IMO A.749(18)
Gas-oil n° 2 Br	100%	8.573	8.573	10.206	10.206	20.329	-1.025	0.835	0.000	IMO A.749(18)
Gas-oil n° 3 Er	100%	9.854	9.854	11.731	11.731	14.503	1.195	0.631	0.000	IMO A.749(18)
Gas-oil n° 3 Br	100%	9.854	9.854	11.731	11.731	14.503	-1.195	0.631	0.000	IMO A.749(18)
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Gas-oil n° 4 Br	100%	6.951	6.951	8.274	8.274	1.032	-2.355	3.216	0.000	IMO A.749(18)
Gas-oil n° 4 Central	100%	10.352	10.352	12.323	12.323	0.438	0.000	3.081	0.000	IMO A.749(18)
Agua dulce	100%	4.592	4.592	4.592	4.592	9.266	1.983	0.885	0.000	IMO A.749(18)
Gas-oil diario	100%	4.521	4.521	5.382	5.382	1.626	0.000	4.896	0.000	IMO A.749(18)
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Reboses	100%	1.945	1.945	2.130	2.130	10.268	-2.087	0.871	0.000	IMO A.749(18)
aceite lubricante	100%	3.296	3.296	3.296	3.296	2.501	-0.399	2.951	0.000	IMO A.749(18)
Aceite hidraulico	100%	1.196	1.196	1.196	1.196	2.501	1.099	2.953	0.000	IMO A.749(18)
ENTREPUESTO	0	0.000	0.000			0.000	0.000	0.000	0.000	User Specified
BODEGA	0%	124.821	0.000	156.026	0.000	11.959	0.000	1.172	0.000	User Specified
VIVERES	1	3.000	3.000			19.200	0.000	4.800	0.000	User Specified
TRIPULACION+EFFECTOS	1	2.100	2.100			22.500	0.000	7.100	0.000	User Specified
CABLE+MALLETA	1	6.000	6.000			17.000	0.000	7.600	0.000	User Specified
PORTAS DE ARRASTRE	1	1.600	1.600			-2.400	0.000	8.200	0.000	User Specified
PORTAS DE RESPETO	1	1.600	1.600			7.000	0.000	7.000	0.000	User Specified
APAREJO	1	2.200	2.200			15.000	0.000	6.900	0.000	User Specified
APAREJO DE RESPETO	1	2.200	2.200			0.000	0.000	8.700	0.000	User Specified
Total Loadcase			444.561	288.483	129.994	13.793	0.011	3.422	0.000	
FS correction								0.000		
VCG fluid								3.422		

Heel to Starboard deg	0.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0
GZ m	-0.011	0.122	0.263	0.416	0.575	0.665	0.644	0.565	0.451	0.276
Area under GZ curve from zero heel m.rad	0.0000	0.0095	0.0430	0.1020	0.1888	0.2985	0.4141	0.5200	0.6094	0.6734
Displacement t	444.6	444.6	444.6	444.6	444.6	444.6	444.6	444.6	444.6	444.6
Draft at FP m	2.995	3.000	3.011	3.002	2.905	2.736	2.501	2.095	1.008	n/a
Draft at AP m	3.257	3.229	3.134	2.948	2.629	2.155	1.505	0.400	-2.631	n/a
WL Length m	31.106	31.157	31.239	31.334	31.459	31.577	32.055	32.714	33.170	33.111
Beam max extents on WL m	7.980	8.100	8.414	8.585	8.560	7.528	6.957	6.727	6.473	6.082
Wetted Area m^2	313.110	311.503	310.893	312.419	316.820	325.277	330.134	331.708	331.482	330.641
Waterpl. Area m^2	214.070	214.259	216.087	219.322	225.840	206.013	193.981	189.003	178.797	166.939
Prismatic coeff. (Cp)	0.658	0.661	0.671	0.690	0.711	0.729	0.733	0.729	0.726	0.735
Block coeff. (Cb)	0.469	0.470	0.482	0.468	0.452	0.507	0.543	0.560	0.591	0.623
LCB from zero pt. (+ve fwd) m	13.779	13.781	13.787	13.796	13.805	13.817	13.826	13.834	13.839	13.844
LCF from zero pt. (+ve fwd) m	12.555	12.692	12.966	13.236	13.449	13.697	13.898	14.007	14.600	14.826
Max deck inclination deg	0.5173	10.0098	20.0012	30.0001	40.0018	50.0040	60.0049	70.0042	80.0024	90.0000
Trim angle (+ve by stern) deg	0.5173	0.4529	0.2426	-0.1056	-0.5450	-1.1487	-1.9682	-3.3449	-7.1522	-1.#IND

Key point	Type	Immersion angle deg	Emergence angle deg
Margin Line (immersion pos = 21.875 m)		38.4	n/a
Deck Edge (immersion pos = 22.043 m)		39.1	n/a
PUERTA PUENTE	Downflooding point	66.7	0



Code	Criteria	Value	Units	Actual	Status	Margin %
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.1: Area 0 to 30	0.0550	m.rad	0.1020	Pass	+85.53
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.1: Area 0 to 40	0.0900	m.rad	0.1888	Pass	+109.82
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.1: Area 30 to 40	0.0300	m.rad	0.0868	Pass	+189.30
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.2: Max GZ at 30 or greater	0.200	m	0.669	Pass	+234.50
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.3: Angle of maximum GZ	25.0	deg	52.7	Pass	+110.91
4.2 Fishing vessel	4.2.3.1: Initial GMt for vessels $\geq 24$ m in length	0.350	m	0.754	Pass	+115.43

## Equilibrium Calculation - PFC ARRASTRERO GRAN SOL

Damage Case - Intact|GUID|f14a5a3c-fe1d-48c3-a4e8-edc7a47cfd1

Item Name	Quantity	Unit Mass tonne	Total Mass tonne	Unit Volume m^3	Total Volume m^3	Long. Arm m	Trans. Arm m	Vert. Arm m	Total FSM tonne.m	FSM Type
ROSCA	1	313.000	313.000			13.500	0.000	3.700	0.000	User Specified
Pique de proa	0%	11.396	0.000	11.118	0.000	27.036	0.000	0.454	0.000	IMO A.749(18)
Combustible n1 ° Er	0%	12.404	0.000	14.767	0.000	23.521	0.003	0.316	0.000	IMO A.749(18)
Combustible n° 1 Br	0%	12.404	0.000	14.767	0.000	23.521	-0.003	0.316	0.000	IMO A.749(18)
Gas-oil n° 2 Er.	0%	8.573	0.000	10.206	0.000	17.551	0.005	0.089	0.000	IMO A.749(18)
Gas-oil n° 2 Br	0%	8.573	0.000	10.206	0.000	17.551	-0.005	0.089	0.000	IMO A.749(18)
Gas-oil n° 3 Er	8.18%	9.854	0.806	11.731	0.960	13.782	0.383	0.116	5.115	IMO A.749(18)
Gas-oil n° 3 Br	8.18%	9.854	0.806	11.731	0.960	13.782	-0.383	0.116	5.115	IMO A.749(18)
Gas-oil n° 4 Er	100%	6.951	6.951	8.274	8.274	1.032	2.355	3.216	0.000	IMO A.749(18)
Gas-oil n° 4 Br	100%	6.951	6.951	8.274	8.274	1.032	-2.355	3.216	0.000	IMO A.749(18)
Gas-oil n° 4 Central	100%	10.352	10.352	12.323	12.323	0.438	0.000	3.081	0.000	IMO A.749(18)
Agua dulce	35%	4.592	1.607	4.592	1.607	9.357	1.721	0.594	1.349	IMO A.749(18)
Gas-oil diario	100%	4.521	4.521	5.382	5.382	1.626	0.000	4.896	0.000	IMO A.749(18)
Aguas sucias	65%	1.271	0.826	1.271	0.826	7.832	-1.715	0.784	0.238	IMO A.749(18)
Lodos	65%	1.221	0.794	1.192	0.774	9.019	-1.842	0.738	0.317	IMO A.749(18)
Reboses	100%	1.945	1.945	2.130	2.130	10.268	-2.087	0.871	0.000	IMO A.749(18)
aceite lubricante	100%	3.296	3.296	3.296	3.296	2.501	-0.399	2.951	0.000	IMO A.749(18)
Aceite hidraulico	100%	1.196	1.196	1.196	1.196	2.501	1.099	2.953	0.000	IMO A.749(18)
ENTREPUESTO	0.8	44.000	35.200			16.700	0.000	4.900	0.000	User Specified
BODEGA	100%	124.821	124.821	156.026	156.026	17.161	0.000	2.489	0.000	User Specified
VIVERES	0.35	3.000	1.050			19.200	0.000	4.800	0.000	User Specified
TRIPULACION+EFFECTOS	1	2.100	2.100			22.500	0.000	7.100	0.000	User Specified
CABLE+MALLETA	1	6.000	6.000			17.000	0.000	7.600	0.000	User Specified
PORTAS DE ARRASTRE	1	1.600	1.600			-2.400	0.000	8.200	0.000	User Specified
PORTAS DE RESPETO	1	1.600	1.600			7.000	0.000	7.000	0.000	User Specified
APAREJO	1	2.200	2.200			15.000	0.000	6.900	0.000	User Specified
APAREJO DE RESPETO	1	2.200	2.200			0.000	0.000	8.700	0.000	User Specified
Total Loadcase			529.820	288.483	202.029	13.728	-0.008	3.551	12.133	
FS correction								0.023		
VCG fluid								3.574		

Draft Amidships m	3.518
Displacement t	529.8
Volume (displaced) m^3	516.898
Heel deg	-0.8
Draft at FP m	3.460
Draft at AP m	3.577
Draft at LCF m	3.526
Trim (+ve by stern) m	0.118
Wetted Area m^2	339.019
Waterpl. Area m^2	220.067
Prismatic coeff. (Cp)	0.683
Block coeff. (Cb)	0.510
Max Sect. area coeff. (Cm)	0.825
Waterpl. area coeff. (Cwp)	0.881
LCB from zero pt. (+ve fwd) m	13.723
TCB m	-0.028
VCB m	2.146
LCF from zero pt. (+ve fwd) m	12.614
KB m	2.146
KG fluid m	3.574
BMt m	2.004
BML m	28.550
GMt corrected m	0.575
GML m	27.122
KMt m	4.150
KML m	30.693
Immersion (TPc) tonne/cm	2.256
MTc tonne.m	4.955
RM at 1deg = GMt.Disp.sin(1) tonne.m	5.321
Max deck inclination deg	0.8218
Trim angle (+ve by stern) deg	0.2326

Key point	Type	Freeboard m
Margin Line (freeboard pos = -2.269 m)		2.385
Deck Edge (freeboard pos = -2.269 m)		2.461
PUERTA PUENTE	Downflooding point	4.75

### Stability Calculation - PFC\_ARRASTRERO\_GRAN\_SOL

Stability 20.00.03.9, build: 9

Damage Case - Intact|GUID|f14a5a3c-fe1d-48c3-a4e8-edc7a47cfd1

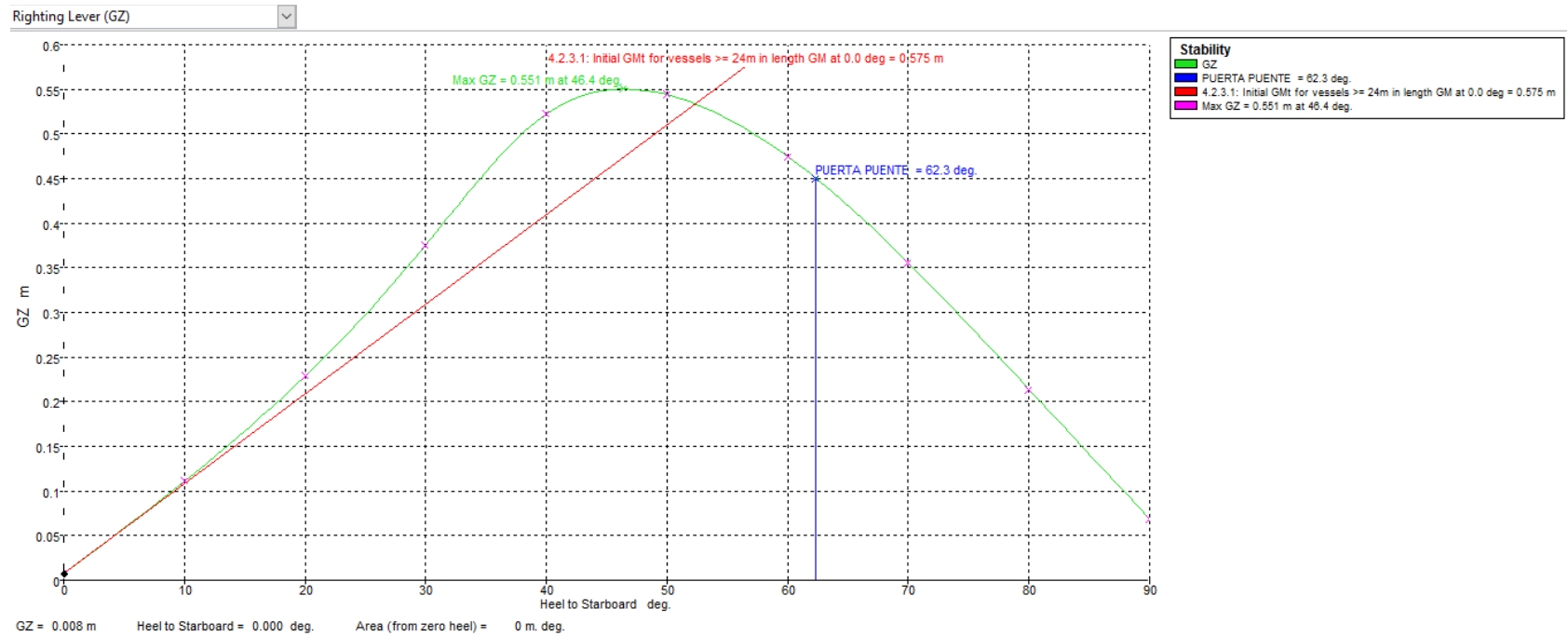
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Pique de proa	0%	11.396	0.000	11.118	0.000	27.036	0.000	0.454	0.000	IMO A.749(18)
Combustible n1 ° Er	0%	12.404	0.000	14.767	0.000	23.521	0.003	0.316	0.000	IMO A.749(18)
Combustible n° 1 Br	0%	12.404	0.000	14.767	0.000	23.521	-0.003	0.316	0.000	IMO A.749(18)
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Gas-oil n° 3 Er	8.18%	9.854	0.806	11.731	0.960	13.782	0.383	0.116	5.114	IMO A.749(18)
Gas-oil n° 3 Br	8.18%	9.854	0.806	11.731	0.960	13.782	-0.383	0.116	5.114	IMO A.749(18)
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Agua dulce	35%	4.592	1.607	4.592	1.607	9.357	1.721	0.594	1.349	IMO A.749(18)
Gas-oil diario	100%	4.521	4.521	5.382	5.382	1.626	0.000	4.896	0.000	IMO A.749(18)
Aguas sucias	65%	1.271	0.826	1.271	0.826	7.832	-1.715	0.784	0.238	IMO A.749(18)
Lodos	65%	1.221	0.794	1.192	0.774	9.019	-1.842	0.738	0.317	IMO A.749(18)
Reboses	100%	1.945	1.945	2.130	2.130	10.268	-2.087	0.871	0.000	IMO A.749(18)
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Aceite hidraulico	100%	1.196	1.196	1.196	1.196	2.501	1.099	2.953	0.000	IMO A.749(18)
ENTREPUESTO	0.8	44.000	35.200			16.700	0.000	4.900	0.000	User Specified
BODEGA	100%	124.821	124.821	156.026	156.026	17.161	0.000	2.489	0.000	User Specified
VIVERES	0.35	3.000	1.050			19.200	0.000	4.800	0.000	User Specified
TRIPULACION+EFFECTOS	1	2.100	2.100			22.500	0.000	7.100	0.000	User Specified
CABLE+MALLETA	1	6.000	6.000			17.000	0.000	7.600	0.000	User Specified
PORTAS DE ARRASTRE	1	1.600	1.600			-2.400	0.000	8.200	0.000	User Specified
PORTAS DE RESPETO	1	1.600	1.600			7.000	0.000	7.000	0.000	User Specified
APAREJO	1	2.200	2.200			15.000	0.000	6.900	0.000	User Specified
APAREJO DE RESPETO	1	2.200	2.200			0.000	0.000	8.700	0.000	User Specified
Total Loadcase			529.820	288.483	202.029	13.728	-0.008	3.551	12.132	
FS correction								0.023		
VCG fluid								3.574		



Heel to Starboard deg	0.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0
GZ m	0.008	0.111	0.229	0.375	0.523	0.544	0.475	0.356	0.214	0.069
Area under GZ curve from zero heel m.rad	0.0000	0.0103	0.0396	0.0918	0.1712	0.2661	0.3559	0.4289	0.4787	0.5034
Displacement t	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8
Draft at FP m	3.460	3.459	3.459	3.444	3.382	3.322	3.269	3.206	3.034	n/a
Draft at AP m	3.577	3.560	3.495	3.357	3.118	2.839	2.479	1.913	0.642	n/a
WL Length m	31.263	31.324	31.416	31.507	31.552	31.707	32.538	33.043	33.001	33.209
Beam max extents on WL m	7.984	8.106	8.481	8.903	8.334	7.348	6.762	6.486	6.503	6.338
Wetted Area m^2	339.015	338.983	339.075	341.235	350.450	359.863	366.065	371.521	373.709	368.086
Waterpl. Area m^2	220.052	221.861	226.407	232.905	222.149	199.679	185.969	178.593	180.778	177.292
Prismatic coeff. (Cp)	0.683	0.684	0.690	0.705	0.727	0.744	0.741	0.741	0.748	0.748
Block coeff. (Cb)	0.510	0.510	0.515	0.483	0.499	0.554	0.585	0.607	0.621	0.636
LCB from zero pt. (+ve fwd) m	13.723	13.723	13.726	13.732	13.740	13.746	13.753	13.757	13.755	13.753
LCF from zero pt. (+ve fwd) m	12.613	12.680	12.910	13.226	13.514	13.807	14.026	14.332	14.378	14.770
Max deck inclination deg	0.2328	10.0019	20.0001	30.0003	40.0017	50.0028	60.0031	70.0024	80.0010	90.0000
Trim angle (+ve by stern) deg	0.2328	0.1989	0.0721	-0.1717	-0.5230	-0.9542	-1.5620	-2.5527	-4.7149	-1.#IND

Key point	Type	Immersion angle deg	Emergence angle deg
Margin Line (immersion pos = 21.537 m)		33.4	n/a
Deck Edge (immersion pos = 21.875 m)		34.2	n/a
PUERTA PUENTE	Downflooding point	62.3	0



Code	Criteria	Value	Units	Actual	Status	Margin %
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.1: Area 0 to 30	0.0550	m.rad	0.0918	Pass	+66.90
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.1: Area 0 to 40	0.0900	m.rad	0.1712	Pass	+90.19
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.1: Area 30 to 40	0.0300	m.rad	0.0794	Pass	+164.57
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.2: Max GZ at 30 or greater	0.200	m	0.551	Pass	+175.50
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.3: Angle of maximum GZ	25.0	deg	46.4	Pass	+85.46
4.2 Fishing vessel	4.2.3.1: Initial GMt for vessels $\geq 24$ m in length	0.350	m	0.575	Pass	+64.29

### Equilibrium Calculation - PFC ARRSTRERO GRAN SOL

Damage Case - Intact[GUID]f14a5a3c-fe1d-48c3-a4e8-edc7a47cfd1

Free to Trim//Specific gravity = 1.025; (Density = 1.025 tonne/m<sup>3</sup>)//Fluid analysis method: Use corrected VCG

Item Name	Quantity	Unit Mass tonne	Total Mass tonne	Unit Volume m^3	Total Volume m^3	Long. Arm m	Trans. Arm m	Vert. Arm m	Total FSM tonne.m	FSM Type
ROSCA	1	313.000	313.000			13.500	0.000	3.700	0.000	User Specified
Pique de proa	0%	11.396	0.000	11.118	0.000	27.036	0.000	0.454	0.000	IMO A.749(18)
Combustible n1 ° Er	0%	12.404	0.000	14.767	0.000	23.521	0.003	0.316	0.000	IMO A.749(18)
Combustible n° 1 Br	0%	12.404	0.000	14.767	0.000	23.521	-0.003	0.316	0.000	IMO A.749(18)
Gas-oil n° 2 Er.	0%	8.573	0.000	10.206	0.000	17.551	0.005	0.089	0.000	IMO A.749(18)
Gas-oil n° 2 Br	0%	8.573	0.000	10.206	0.000	17.551	-0.005	0.089	0.000	IMO A.749(18)
Gas-oil n° 3 Er	0%	9.854	0.000	11.731	0.000	11.525	0.107	-0.155	0.000	IMO A.749(18)
Gas-oil n° 3 Br	0%	9.854	0.000	11.731	0.000	11.525	-0.107	-0.155	0.000	IMO A.749(18)
Gas-oil n° 4 Er	0%	6.951	0.000	8.274	0.000	2.812	1.680	2.200	0.000	IMO A.749(18)
Gas-oil n° 4 Br	0%	6.951	0.000	8.274	0.000	2.812	-1.680	2.200	0.000	IMO A.749(18)
Gas-oil n° 4 Central	26.78%	10.352	2.772	12.323	3.300	0.798	0.000	2.603	4.654	IMO A.749(18)
Agua dulce	0.1%	4.592	0.005	4.592	0.005	9.618	1.283	0.204	0.000	IMO A.749(18)
Gas-oil diario	100%	4.521	4.521	5.382	5.382	1.626	0.000	4.896	0.000	IMO A.749(18)
Aguas sucias	90%	1.271	1.144	1.271	1.144	7.823	-1.794	0.879	0.238	IMO A.749(18)
Lodos	90%	1.221	1.099	1.192	1.072	9.017	-1.935	0.842	0.317	IMO A.749(18)
Reboses	100%	1.945	1.945	2.130	2.130	10.268	-2.087	0.871	0.000	IMO A.749(18)
aceite lubricante	100%	3.296	3.296	3.296	3.296	2.501	-0.399	2.951	0.000	IMO A.749(18)
Aceite hidraulico	100%	1.196	1.196	1.196	1.196	2.501	1.099	2.953	0.000	IMO A.749(18)
ENTREPUENTE	0.8	44.000	35.200			16.700	0.000	4.900	0.000	User Specified
BODEGA	100%	124.821	124.821	156.026	156.026	17.161	0.000	2.489	0.000	User Specified
VIVERES	0.1	3.000	0.300			19.200	0.000	4.800	0.000	User Specified
TRIPULACION+EFFECTOS	1	2.100	2.100			22.500	0.000	7.100	0.000	User Specified
CABLE+MALLETA	1	6.000	6.000			17.000	0.000	7.600	0.000	User Specified
PORTAS DE ARRASTRE	1	1.600	1.600			-2.400	0.000	8.200	0.000	User Specified
PORTAS DE RESPETO	1	1.600	1.600			7.000	0.000	7.000	0.000	User Specified
APAREJO	1	2.200	2.200			15.000	0.000	6.900	0.000	User Specified
APAREJO DE RESPETO	1	2.200	2.200			0.000	0.000	8.700	0.000	User Specified
Total Loadcase			504.998	288.483	173.551	14.278	-0.016	3.580	5.209	
FS correction								0.010		
VCG fluid								3.591		

Draft Amidships m	3.439
Displacement t	505.0
Volume (displaced) m^3	492.681
Heel deg	-1.7
Draft at FP m	3.636
Draft at AP m	3.243
Draft at LCF m	3.417
Trim (+ve by stern) m	-0.393
Wetted Area m^2	331.943
Waterpl. Area m^2	218.373
Prismatic coeff. (Cp)	0.676
Block coeff. (Cb)	0.524
Max Sect. area coeff. (Cm)	0.828
Waterpl. area coeff. (Cwp)	0.872
LCB from zero pt. (+ve fwd) m	14.297
TCB m	-0.060
VCB m	2.084
LCF from zero pt. (+ve fwd) m	12.828
KB m	2.084
KG fluid m	3.591
BMt m	2.044
BML m	29.541
GMt corrected m	0.537
GML m	28.034
KMt m	4.127
KML m	31.610
Immersion (TPc) tonne/cm	2.238
MTc tonne.m	4.882
RM at 1deg = GMt.Disp.sin(1) tonne.m	4.732
Max deck inclination deg	1.8512
Trim angle (+ve by stern) deg	-0.7773

Key point	Type	Freeboard m
Margin Line (freeboard pos = 27.953 m)		2.313
Deck Edge (freeboard pos = 28.122 m)		2.387
PUERTA PUENTE	Downflooding point	4.732

### Stability Calculation - PFC\_ARRASTRERO\_GRAN\_SOL

Stability 20.00.03.9, build: 9

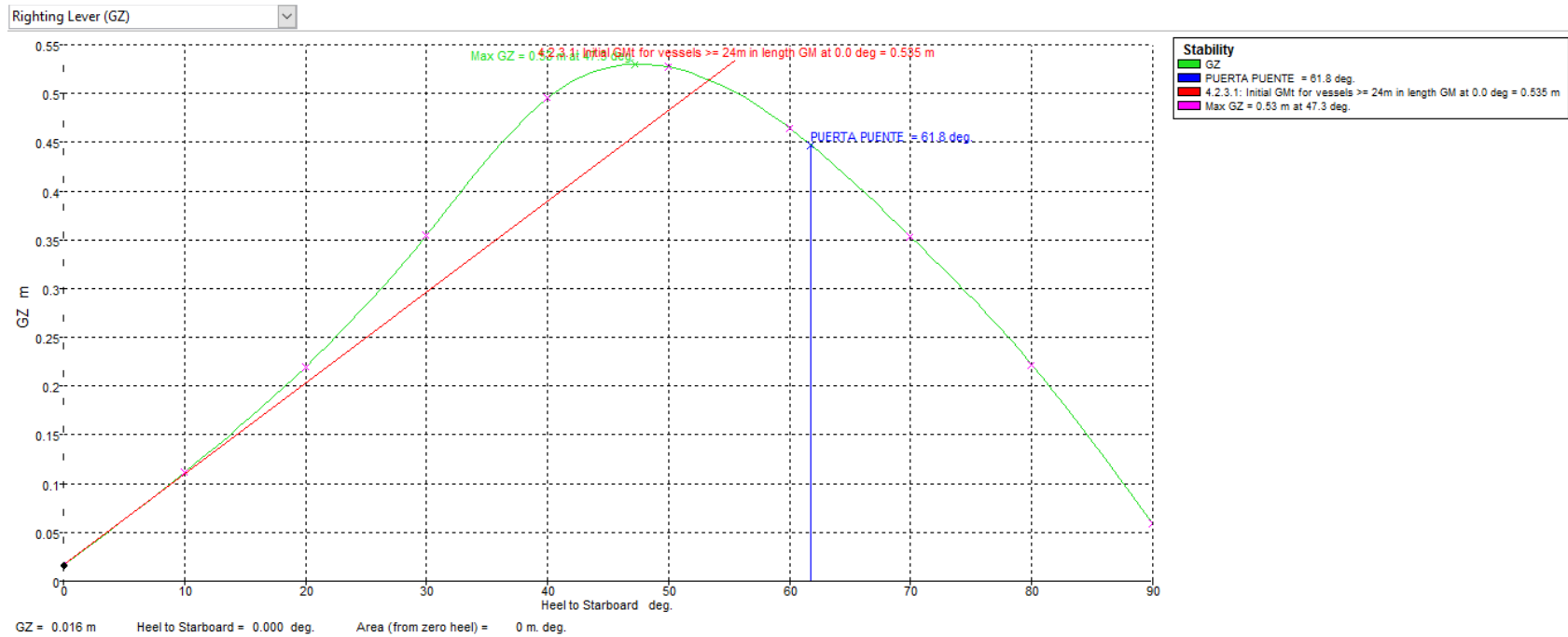
Damage Case - Intact|GUID|f14a5a3c-fe1d-48c3-a4e8-edc7a47cfd1

Free to Trim//Specific gravity = 1.025; (Density = 1.025 tonne/m<sup>3</sup>)//Fluid analysis method: Use corrected VCG

Item Name	Quantity	Unit Mass tonne	Total Mass tonne	Unit Volume m^3	Total Volume m^3	Long. Arm m	Trans. Arm m	Vert. Arm m	Total FSM tonne.m	FSM Type
ROSCA	1	313.000	313.000			13.500	0.000	3.700	0.000	User Specified
Pique de proa	0%	11.396	0.000	11.118	0.000	27.036	0.000	0.454	0.000	IMO A.749(18)
Combustible n1 ° Er	0%	12.404	0.000	14.767	0.000	23.521	0.003	0.316	0.000	IMO A.749(18)
Combustible n° 1 Br	0%	12.404	0.000	14.767	0.000	23.521	-0.003	0.316	0.000	IMO A.749(18)
Gas-oil n° 2 Er.	0%	8.573	0.000	10.206	0.000	17.551	0.005	0.089	0.000	IMO A.749(18)
Gas-oil n° 2 Br	0%	8.573	0.000	10.206	0.000	17.551	-0.005	0.089	0.000	IMO A.749(18)
Gas-oil n° 3 Er	0%	9.854	0.000	11.731	0.000	11.525	0.107	-0.155	0.000	IMO A.749(18)
Gas-oil n° 3 Br	0%	9.854	0.000	11.731	0.000	11.525	-0.107	-0.155	0.000	IMO A.749(18)
Gas-oil n° 4 Er	0%	6.951	0.000	8.274	0.000	2.812	1.680	2.200	0.000	IMO A.749(18)
Gas-oil n° 4 Br	0%	6.951	0.000	8.274	0.000	2.812	-1.680	2.200	0.000	IMO A.749(18)
Gas-oil n° 4 Central	26.78%	10.352	2.772	12.323	3.300	0.798	0.000	2.603	4.652	IMO A.749(18)
Agua dulce	0.1%	4.592	0.005	4.592	0.005	9.618	1.283	0.204	0.000	IMO A.749(18)
Gas-oil diario	100%	4.521	4.521	5.382	5.382	1.626	0.000	4.896	0.000	IMO A.749(18)
Aguas sucias	90%	1.271	1.144	1.271	1.144	7.823	-1.794	0.879	0.238	IMO A.749(18)
Lodos	90%	1.221	1.099	1.192	1.072	9.017	-1.935	0.842	0.317	IMO A.749(18)
Reboses	100%	1.945	1.945	2.130	2.130	10.268	-2.087	0.871	0.000	IMO A.749(18)
aceite lubricante	100%	3.296	3.296	3.296	3.296	2.501	-0.399	2.951	0.000	IMO A.749(18)
Aceite hidraulico	100%	1.196	1.196	1.196	1.196	2.501	1.099	2.953	0.000	IMO A.749(18)
ENTREPUENTE	0.8	44.000	35.200			16.700	0.000	4.900	0.000	User Specified
BODEGA	100%	124.821	124.821	156.026	156.026	17.161	0.000	2.489	0.000	User Specified
VIVERES	0.1	3.000	0.300			19.200	0.000	4.800	0.000	User Specified
TRIPULACION+EFFECTOS	1	2.100	2.100			22.500	0.000	7.100	0.000	User Specified
CABLE+MALLETA	1	6.000	6.000			17.000	0.000	7.600	0.000	User Specified
PORTAS DE ARRASTRE	1	1.600	1.600			-2.400	0.000	8.200	0.000	User Specified
PORTAS DE RESPETO	1	1.600	1.600			7.000	0.000	7.000	0.000	User Specified
APAREJO	1	2.200	2.200			15.000	0.000	6.900	0.000	User Specified
APAREJO DE RESPETO	1	2.200	2.200			0.000	0.000	8.700	0.000	User Specified
Total Loadcase			504.998	288.483	173.551	14.278	-0.016	3.580	5.207	
FS correction								0.010		
VCG fluid								3.591		

Heel to Starboard deg	0.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0
GZ m	0.016	0.111	0.220	0.354	0.496	0.527	0.464	0.353	0.222	0.059
Area under GZ curve from zero heel m.rad	0.0000	0.0110	0.0397	0.0893	0.1643	0.2553	0.3428	0.4145	0.4652	0.4900
Displacement t	505.0	505.0	505.0	505.0	505.0	505.0	505.0	505.0	505.0	505.0
Draft at FP m	3.636	3.641	3.653	3.651	3.608	3.616	3.671	3.812	4.266	n/a
Draft at AP m	3.243	3.216	3.127	2.956	2.657	2.218	1.613	0.590	-2.104	n/a
WL Length m	31.341	31.395	31.490	31.589	31.665	32.074	32.801	33.254	33.549	33.157
Beam max extents on WL m	7.983	8.104	8.472	8.827	8.418	7.424	6.861	6.621	6.619	6.181
Wetted Area m^2	331.941	330.688	330.403	332.961	341.181	350.466	355.756	357.996	359.875	357.350
Waterpl. Area m^2	218.336	218.978	222.559	228.968	224.382	202.298	189.117	183.783	177.398	171.854
Prismatic coeff. (Cp)	0.676	0.677	0.685	0.702	0.722	0.733	0.731	0.731	0.731	0.745
Block coeff. (Cb)	0.524	0.526	0.531	0.477	0.482	0.532	0.561	0.580	0.588	0.612
LCB from zero pt. (+ve fwd) m	14.297	14.300	14.305	14.312	14.320	14.333	14.344	14.351	14.353	14.355
LCF from zero pt. (+ve fwd) m	12.826	12.960	13.233	13.536	13.499	13.674	13.789	13.848	14.433	14.942
Max deck inclination deg	0.7756	10.0338	20.0228	30.0214	40.0215	50.0231	60.0208	70.0150	80.0073	90.0000
Trim angle (+ve by stern) deg	-0.7756	-0.8402	-1.0389	-1.3726	-1.8766	-2.7602	-4.0594	-6.3397	-12.3879	-90.0000

Key point	Type	Immersion angle deg	Emergence angle deg
Margin Line (immersion pos = 23.394 m)		32.6	n/a
Deck Edge (immersion pos = 23.563 m)		33.4	n/a
PUERTA PUENTE	Downflooding point	61.8	0



Code	Criteria	Value	Units	Actual	Status	Margin %
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.1: Area 0 to 30	0.0550	m.rad	0.0893	Pass	+62.37
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.1: Area 0 to 40	0.0900	m.rad	0.1643	Pass	+82.53
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.1: Area 30 to 40	0.0300	m.rad	0.0750	Pass	+149.90
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.2: Max GZ at 30 or greater	0.200	m	0.530	Pass	+165.00
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.3: Angle of maximum GZ	25.0	deg	47.3	Pass	+89.09
4.2 Fishing vessel	4.2.3.1: Initial GMt for vessels $\geq 24$ m in length	0.350	m	0.535	Pass	+52.86

### Equilibrium Calculation - PFC ARRASTRERO GRAN SOL

Damage Case - Intact|GUID|f14a5a3c-fe1d-48c3-a4e8-edc7a47cfd1

Item Name	Quantity	Unit Mass tonne	Total Mass tonne	Unit Volume m^3	Total Volume m^3	Long. Arm m	Trans. Arm m	Vert. Arm m	Total FSM tonne.m	FSM Type
ROSCA	1	313.000	313.000			13.500	0.000	3.700	0.000	User Specified
Pique de proa	100%	11.396	11.396	11.118	11.118	27.933	0.000	2.268	0.000	IMO A.749(18)
Combustible n1 ° Er	0%	12.404	0.000	14.767	0.000	23.521	0.003	0.316	0.000	IMO A.749(18)
Combustible n° 1 Br	0%	12.404	0.000	14.767	0.000	23.521	-0.003	0.316	0.000	IMO A.749(18)
Gas-oil n° 2 Er.	0%	8.573	0.000	10.206	0.000	17.551	0.005	0.089	0.000	IMO A.749(18)
Gas-oil n° 2 Br	0%	8.573	0.000	10.206	0.000	17.551	-0.005	0.089	0.000	IMO A.749(18)
Gas-oil n° 3 Er	0%	9.854	0.000	11.731	0.000	11.525	0.107	-0.155	0.000	IMO A.749(18)
Gas-oil n° 3 Br	0%	9.854	0.000	11.731	0.000	11.525	-0.107	-0.155	0.000	IMO A.749(18)
Gas-oil n° 4 Er	0%	6.951	0.000	8.274	0.000	2.812	1.680	2.200	0.000	IMO A.749(18)
Gas-oil n° 4 Br	0%	6.951	0.000	8.274	0.000	2.812	-1.680	2.200	0.000	IMO A.749(18)
Gas-oil n° 4 Central	26.78%	10.352	2.772	12.323	3.300	0.798	0.000	2.603	4.656	IMO A.749(18)
Agua dulce	0.1%	4.592	0.005	4.592	0.005	9.618	1.283	0.204	0.000	IMO A.749(18)
Gas-oil diario	100%	4.521	4.521	5.382	5.382	1.626	0.000	4.896	0.000	IMO A.749(18)
Aguas sucias	90%	1.271	1.144	1.271	1.144	7.823	-1.794	0.879	0.238	IMO A.749(18)
Lodos	90%	1.221	1.099	1.192	1.072	9.017	-1.935	0.842	0.317	IMO A.749(18)
Reboses	100%	1.945	1.945	2.130	2.130	10.268	-2.087	0.871	0.000	IMO A.749(18)
aceite lubricante	100%	3.296	3.296	3.296	3.296	2.501	-0.399	2.951	0.000	IMO A.749(18)
Aceite hidraulico	100%	1.196	1.196	1.196	1.196	2.501	1.099	2.953	0.000	IMO A.749(18)
ENTREPUESTO	0	0.000	0.000			16.700	0.000	4.900	0.000	User Specified
BODEGA	25.64%	124.821	32.004	156.026	40.005	16.521	0.000	1.693	0.000	User Specified
VIVERES	0.1	3.000	0.300			19.200	0.000	4.800	0.000	User Specified
TRIPULACION+EFECTOS	1	2.100	2.100			22.500	0.000	7.100	0.000	User Specified
CABLE+MALLETA	1	6.000	6.000			17.000	0.000	7.600	0.000	User Specified
PORTAS DE ARRASTRE	1	1.600	1.600			-2.400	0.000	8.200	0.000	User Specified
PORTAS DE RESPETO	1	1.600	1.600			7.000	0.000	7.000	0.000	User Specified
APAREJO	1	2.200	2.200			15.000	0.000	6.900	0.000	User Specified
APAREJO DE RESPETO	1	2.200	2.200			0.000	0.000	8.700	0.000	User Specified
Total Loadcase			388.377	288.483	68.648	13.718	-0.021	3.617	5.211	
FS correction								0.013		
VCG fluid								3.631		



Draft Amidships m	2.851
Displacement t	388.4
Volume (displaced) m^3	378.904
Heel deg	-2.3
Draft at FP m	2.611
Draft at AP m	3.091
Draft at LCF m	2.883
Trim (+ve by stern) m	0.480
Wetted Area m^2	293.945
Waterpl. Area m^2	209.154
Prismatic coeff. (Cp)	0.631
Block coeff. (Cb)	0.428
Max Sect. area coeff. (Cm)	0.782
Waterpl. area coeff. (Cwp)	0.837
LCB from zero pt. (+ve fwd) m	13.685
TCB m	-0.098
VCB m	1.766
LCF from zero pt. (+ve fwd) m	12.596
KB m	1.766
KG fluid m	3.631
BMt m	2.468
BML m	34.625
GMt corrected m	0.601
GML m	32.758
KMt m	4.231
KML m	36.359
Immersion (TPc) tonne/cm	2.144
MTc tonne.m	4.387
RM at 1deg = GMt.Disp.sin(1) tonne.m	4.073
Max deck inclination deg	2.4759
Trim angle (+ve by stern) deg	0.9481

Key point	Type	Freeboard m
Margin Line (freeboard pos = -2.269 m)		2.74
Deck Edge (freeboard pos = -2.269 m)		2.816
PUERTA PUENTE	Downflooding point	5.579

### Stability Calculation - PFC\_ARRASTRERO\_GRAN\_SOL

Stability 20.00.03.9, build: 9

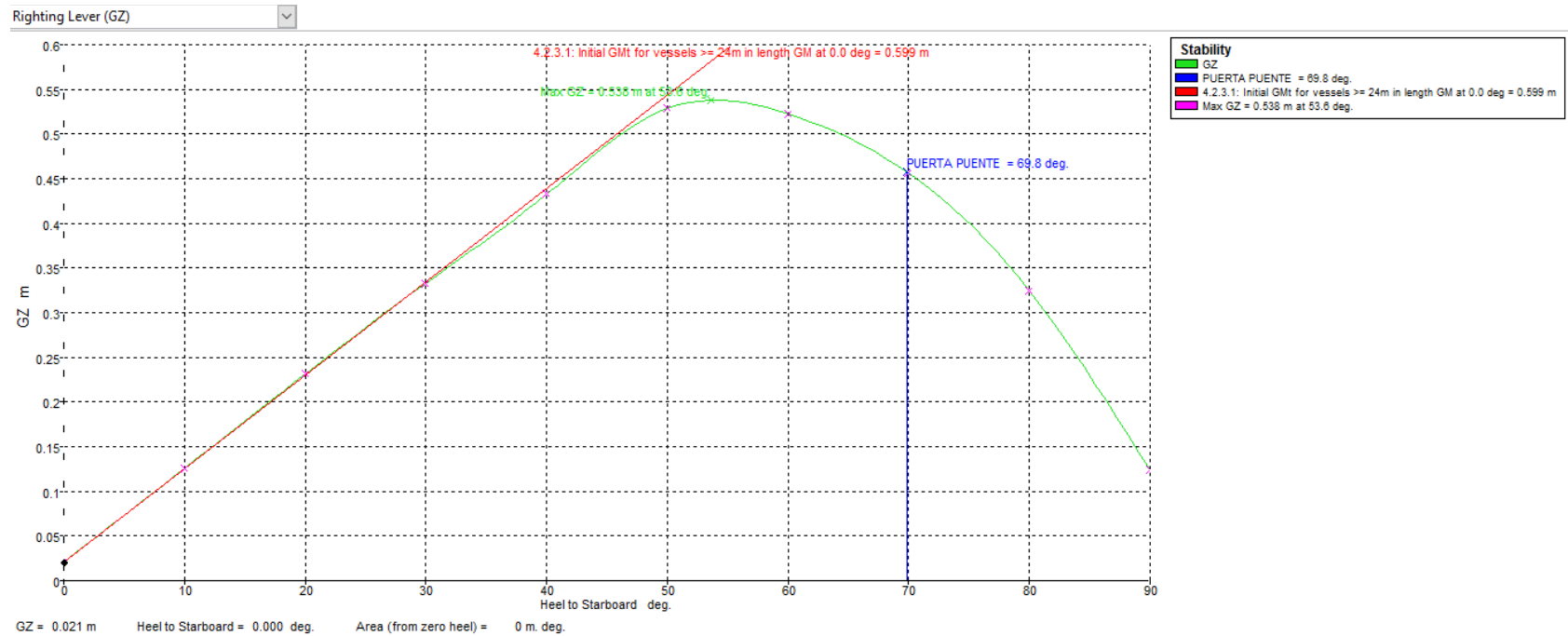
Damage Case - Intact|GUID|f14a5a3c-fe1d-48c3-a4e8-edc7a47cfd1

Free to Trim//Specific gravity = 1.025; (Density = 1.025 tonne/m<sup>3</sup>)//Fluid analysis method: Use corrected VCG

Item Name	Quantity	Unit Mass tonne	Total Mass tonne	Unit Volume m^3	Total Volume m^3	Long. Arm m	Trans. Arm m	Vert. Arm m	Total FSM tonne.m	FSM Type
ROSCA	1	313.000	313.000			13.500	0.000	3.700	0.000	User Specified
Pique de proa	100%	11.396	11.396	11.118	11.118	27.933	0.000	2.268	0.000	IMO A.749(18)
Combustible n1 ° Er	0%	12.404	0.000	14.767	0.000	23.521	0.003	0.316	0.000	IMO A.749(18)
Combustible n° 1 Br	0%	12.404	0.000	14.767	0.000	23.521	-0.003	0.316	0.000	IMO A.749(18)
Gas-oil n° 2 Er.	0%	8.573	0.000	10.206	0.000	17.551	0.005	0.089	0.000	IMO A.749(18)
Gas-oil n° 2 Br	0%	8.573	0.000	10.206	0.000	17.551	-0.005	0.089	0.000	IMO A.749(18)
Gas-oil n° 3 Er	0%	9.854	0.000	11.731	0.000	11.525	0.107	-0.155	0.000	IMO A.749(18)
Gas-oil n° 3 Br	0%	9.854	0.000	11.731	0.000	11.525	-0.107	-0.155	0.000	IMO A.749(18)
Gas-oil n° 4 Er	0%	6.951	0.000	8.274	0.000	2.812	1.680	2.200	0.000	IMO A.749(18)
Gas-oil n° 4 Br	0%	6.951	0.000	8.274	0.000	2.812	-1.680	2.200	0.000	IMO A.749(18)
Gas-oil n° 4 Central	26.78%	10.352	2.772	12.323	3.300	0.798	0.000	2.603	4.652	IMO A.749(18)
Agua dulce	0.1%	4.592	0.005	4.592	0.005	9.618	1.283	0.204	0.000	IMO A.749(18)
Gas-oil diario	100%	4.521	4.521	5.382	5.382	1.626	0.000	4.896	0.000	IMO A.749(18)
Aguas sucias	90%	1.271	1.144	1.271	1.144	7.823	-1.794	0.879	0.238	IMO A.749(18)
Lodos	90%	1.221	1.099	1.192	1.072	9.017	-1.935	0.842	0.317	IMO A.749(18)
Reboses	100%	1.945	1.945	2.130	2.130	10.268	-2.087	0.871	0.000	IMO A.749(18)
aceite lubricante	100%	3.296	3.296	3.296	3.296	2.501	-0.399	2.951	0.000	IMO A.749(18)
Aceite hidraulico	100%	1.196	1.196	1.196	1.196	2.501	1.099	2.953	0.000	IMO A.749(18)
ENTREPUESTO	0	0.000	0.000			16.700	0.000	4.900	0.000	User Specified
BODEGA	25.64%	124.821	32.004	156.026	40.005	16.521	0.000	1.693	0.000	User Specified
VIVERES	0.1	3.000	0.300			19.200	0.000	4.800	0.000	User Specified
TRIPULACION+EFFECTO S	1	2.100	2.100			22.500	0.000	7.100	0.000	User Specified
CABLE+MALLETA	1	6.000	6.000			17.000	0.000	7.600	0.000	User Specified
PORTAS DE ARRASTRE	1	1.600	1.600			-2.400	0.000	8.200	0.000	User Specified
PORTAS DE RESPETO	1	1.600	1.600			7.000	0.000	7.000	0.000	User Specified
APAREJO	1	2.200	2.200			15.000	0.000	6.900	0.000	User Specified
APAREJO DE RESPETO	1	2.200	2.200			0.000	0.000	8.700	0.000	User Specified
Total Loadcase			388.377	288.483	68.648	13.718	-0.021	3.617	5.207	
FS correction								0.013		
VCG fluid								3.631		

Heel to Starboard deg	0.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0
GZ m	0.021	0.126	0.231	0.333	0.433	0.528	0.522	0.456	0.324	0.124
Area under GZ curve from zero heel m.r	0.0000	0.0128	0.0439	0.0933	0.1599	0.2446	0.3377	0.4238	0.4930	0.5328
Displacement t	388.4	388.4	388.4	388.4	388.4	388.4	388.4	388.4	388.4	388.4
Draft at FP m	2.611	2.620	2.637	2.622	2.513	2.265	1.884	1.190	-0.726	n/a
Draft at AP m	3.093	3.056	2.940	2.724	2.366	1.799	0.997	-0.383	-4.456	n/a
WL Length m	31.279	31.314	31.376	31.476	31.678	32.107	32.389	32.466	32.936	33.323
Beam max extents on WL m	7.977	8.093	8.307	8.294	8.203	7.647	7.084	7.005	6.294	5.951
Wetted Area m^2	294.012	292.575	291.454	292.253	295.359	302.569	306.920	307.196	302.946	305.005
Waterpl. Area m^2	209.198	208.518	208.390	209.671	215.730	209.290	197.344	190.373	174.402	159.630
Prismatic coeff. (Cp)	0.631	0.635	0.650	0.670	0.689	0.699	0.708	0.715	0.715	0.718
Block coeff. (Cb)	0.428	0.431	0.450	0.455	0.439	0.463	0.500	0.515	0.587	0.608
LCB from zero pt. (+ve fwd) m	13.685	13.690	13.698	13.711	13.725	13.740	13.752	13.760	13.771	13.779
LCF from zero pt. (+ve fwd) m	12.587	12.743	13.004	13.208	13.429	13.625	13.820	13.987	14.322	14.637
Max deck inclination deg	0.9527	10.0355	20.0076	30.0005	40.0005	50.0026	60.0039	70.0036	80.0025	90.0000
Trim angle (+ve by stern) deg	0.9527	0.8606	0.5992	0.2010	-0.2911	-0.9198	-1.7536	-3.1043	-7.3290	-1.#IND

Key point	Type	Immersion angle deg	Emergence angle deg
Margin Line (immersion pos = 21.537 m)		42.1	n/a
Deck Edge (immersion pos = 21.875 m)		42.9	n/a
PUERTA PUENTE	Downflooding point	69.8	0



Code	Criteria	Value	Units	Actual	Status	Margin %
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.1: Area 0 to 30	0.0550	m.rad	0.0933	Pass	+69.65
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.1: Area 0 to 40	0.0900	m.rad	0.1599	Pass	+77.70
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.1: Area 30 to 40	0.0300	m.rad	0.0666	Pass	+122.08
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.2: Max GZ at 30 or greater	0.200	m	0.538	Pass	+169.00
A.749(18) Ch3 - Design criteria applicable to all ships	3.1.2.3: Angle of maximum GZ	25.0	deg	53.6	Pass	+114.54
4.2 Fishing vessel	4.2.3.1: Initial GMt for vessels $\geq 24$ m in length	0.350	m	0.599	Pass	+71.14