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(My Manual calculation)

GZ values (report stability from delftship)									
Heeling angle	Draft	Trim	Displ.	KN sin(θ)	VCG sin(θ)	GG' sin(α)	TCG cos(θ)	GZ	Area
(Degr.)	(m)	(m)	(tonnes)	(m)	(m)	(m)	(m)	(m)	(mrad)
0.00 (CL)	2.407	-1.099	885.53	0	0	0	0	0	0
10.00 (PS)	2.401	-1.081	885.56	0.77	0.581	0.001	0	0.188	0.016
20.00 (PS)	2.379	-1.026	885.68	1.563	1.145	0.001	0	0.417	0.068
30.00 (PS)	2.295	-0.963	885.55	2.334	1.674	0.001	0	0.659	0.163
40.00 (PS)	2.082	-0.992	885.66	2.933	2.152	0.001	0	0.78	0.291
50.00 (PS)	1.745	-1.087	885.62	3.303	2.564	0.001	0	0.738	0.425
60.00 (PS)	1.137	-1.312	885.68	3.539	2.899	0.001	0	0.639	0.546
70.00 (PS)	-0.04	-1.648	885.69	3.611	3.146	0	0	0.465	0.643
80.00 (PS)	-3.533	-2.459	885.7	3.542	3.297	0	0	0.245	0.706
90.00 (PS)	26	-1526.941	885.55	3.331	3.348	0	0	-0.017	0.726

Displacement	=	885.69	
FSM	=	44.11	
angle	GG'	sin(α)	GG'.sin(α)
0	0.0498	0.000	0.000
10	0.0498	0.174	0.009
20	0.0498	0.342	0.017
30	0.0498	0.500	0.025
40	0.0498	0.643	0.032
50	0.0498	0.766	0.038
60	0.0498	0.866	0.043
70	0.0498	0.940	0.047
80	0.0498	0.985	0.049
90	0.0498	1.000	0.050

Summary

Description	Weight (tonnes)	VCG (m)	LCG (m)	TCG (m)	FSM (Tonnes*m)
Cargo Hold	0	0	0	0	
Fresh Water Tank	12.94	4.005	2.043	0	28.77
Fuel Oil Tank	21.35	1.881	10.729	0	15.34
Water Ballast Tank	150.52	0.67	36.628	0	0
Container Load	230	5.274	26.974	0	
Consummable	2.93	6.637	7.863	0	
Lightship	467.95	3.29	22.52	0.000 (CL)	
Deadweight	417.74	3.412	28.715	0.000 (CL)	44.11
Displacement	885.69	3.348	25.442	0.000 (CL)	44.11

Description	Density (t/m³)	Fill%	Weight (tonnes)	VCG (m)	LCG (m)	TCG (m)	FSM (Tonnes*m)
Fresh Water Tank							
A.P.T. (C) (Fr. 1 - 5)	1	100	12.94	4.005	2.043	0.000 (CL)	28.77
Totals for Fresh Water Tank			12.94	4.005	2.043	0.000 (CL)	28.77
Fuel Oil Tank							
No. 1 F.O.T. (P) (Fr. 19 - 21)	0.85	98	8.83	2.082	11.005	2.117 (PS)	7.22
No. 1 F.O.T. (S) (Fr. 19 - 21)	0.85	98	8.83	2.082	11.005	-2.117 (SB)	7.22
No. 2 F.O.T. (P) (Fr. 14 - 19)	0.85	98	1.84	0.915	9.403	2.588 (PS)	0.45
No. 2 F.O.T. (S) (Fr. 14 - 19)	0.85	98	1.84	0.915	9.403	-2.588 (SB)	0.45
Totals for Fuel Oil Tank			21.35	1.881	10.729	0.000 (CL)	15.34
Water Ballast Tank							
F.P.T. (C) (Fr. 89 - F.E.)	1.025	100	15.45	2.032	50.296	0.000 (CL)	0
No. 1 W.B.T. (P) (Fr. 70 - 84)	1.025	100	21.32	0.51	41.931	1.716 (PS)	0
No. 1 W.B.T. (S) (Fr. 70 - 84)	1.025	100	21.32	0.51	41.931	-1.716 (SB)	0.00
No. 2 W.B.T. (P) (Fr. 46 - 70)	1.025	100	46.21	0.517	31.896	2.127 (PS)	0
No. 2 W.B.T. (S) (Fr. 46 - 70)	1.025	100	46.21	0.517	31.896	-2.127 (SB)	0.00
Totals for Water Ballast Tank			150.52	0.67	36.628	0.000 (CL)	0
Container Load							
Bay 1			30	2.524	37.11	0.000 (CL)	
Bay 3			30	2.524	30.52	0.000 (CL)	
Bay 5			30	2.524	23.93	0.000 (CL)	
Bay 7			30	2.524	17.31	0.000 (CL)	
Container No. 1			10	8.274	40.03	0.000 (CL)	
Container No. 2			10	8.274	37.59	0.000 (CL)	
Container No. 3			10	8.274	35.16	0.000 (CL)	
Container No. 4			10	8.274	32.72	0.000 (CL)	
Container No. 5			10	8.274	28.5	0.000 (CL)	
Container No. 6			10	8.274	26.06	0.000 (CL)	
Container No. 7			10	8.274	23.62	0.000 (CL)	
Container No. 8			10	8.274	21.18	0.000 (CL)	
Container No. 9			10	8.274	18.75	0.000 (CL)	
Container No. 10			10	8.274	16.31	0.000 (CL)	
Container No. 11			10	8.274	13.87	0.000 (CL)	
Totals for Container Load			230	5.274	26.974	0.000 (CL)	
Consummable							
Crews/ ABK and baggages			0.94	8	6.5	0.000 (CL)	
Provision 100%			2	6	8.5	0.000 (CL)	
Totals for Consummable			2.93	6.637	7.863	0.000 (CL)	
Lightship			467.95	3.29	22.52	0.000 (CL)	
Deadweight			417.74	3.412	28.715	0.000 (CL)	44.11
Displacement			885.69	3.348	25.442	0.000 (CL)	44.11

Why is it difference ? Can you explain that ?
Thankyou very much

< === setting for maximum FSM according to IMO

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