

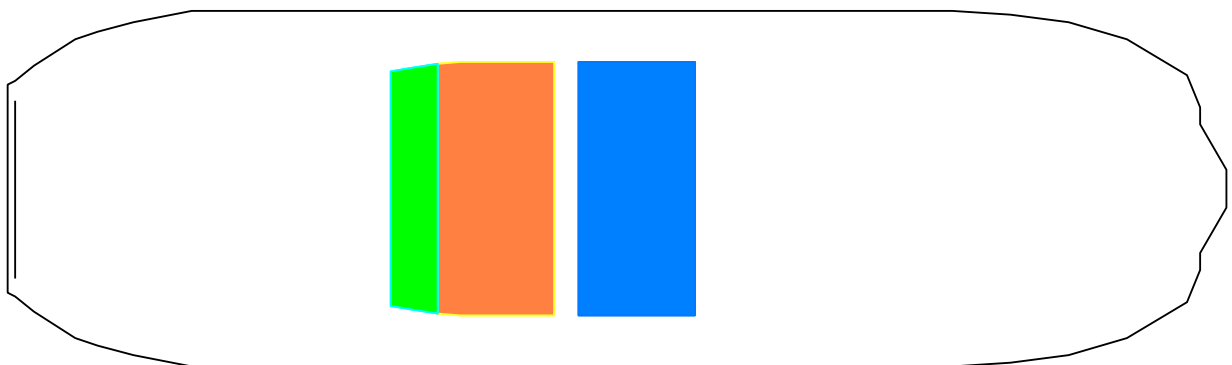
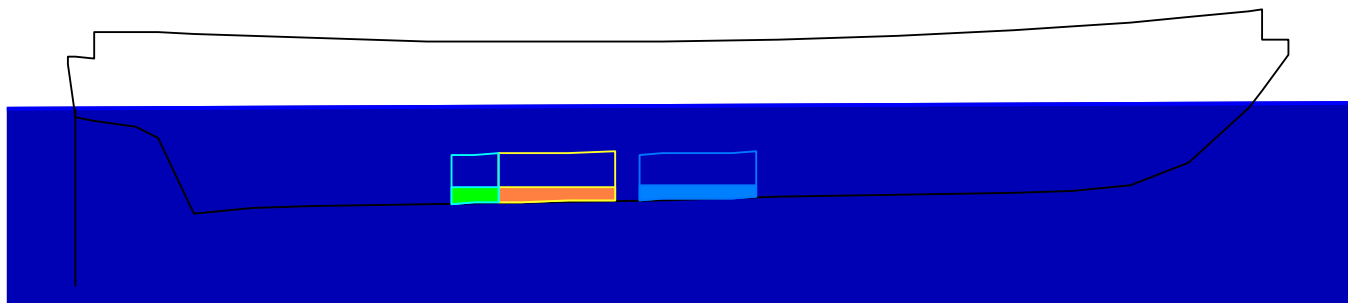
Kondition 04aa
Maks antall passasjerer, halv last på dæk CL, 10% brennolje, 10% ferskvand

Floating Status

Draft FP	2.065 m	Heel	0.76s deg	GM(Solid)	1.149 m
Draft MS	2.014 m	Equil	Yes	F/S Corr.	0.041 m
Draft AP	1.964 m	Wind	Off	GM(Fluid)	1.108 m
Trim	0.10f m	Wave	No	KMT	3.969 m
LCG	-12.229 m	VCG-Solid	2.820 m	TPcm	1.41
Displacement	174.6 MT	WaterSpgr	1.025		

Loading Summary

Item	Weight (MT)	LCG (m)	TCG (m)	VCG (m)
Light Ship	134.84	12.151f	0.019s	2.524
Deadweight	39.80	12.495f	0.002s	3.822
Displacement	174.64	12.229f	0.015s	2.820



Fluid Legend

Fluid Name	Legend	Weight (MT)	Load%
DIESEL OIL		.79	10.00%
FRESH WATER		.89	10.00%
SEWAGE		.32	10.00%

Fixed Weight Status

Item	Weight (MT)	LCG (m)	TCG (m)	VCG (m)
LIGHT SHIP	134.84	12.151f	0.019s	2.524u
BESÆTNING / STORES	1.00	12.000f	0.000	4.500u
LAST PÅ DÆK	30.00	12.500f	0.000	4.200u
PASSASJERER I SALONG	3.40	13.300f	0.000	2.050u
PASSASJERER PÅ DÆK	3.40	12.500f	0.000	4.200u
Total Fixed:	172.64	12.240f	0.015s	2.850u

Tank Status DIESEL OIL

Tank Name	Spgr	Load (%)	Weight (MT)	LCG (m)	TCG (m)	VCG (m)	FSMT (MT-m)
F.O.	0.870	10.00%	0.79	10.260f	0.047s	0.161	2.8
Subtotals:		10.00%	0.79	10.260f	0.047s	0.161	2.8

FRESH WATER

Tank Name	Spgr	Load (%)	Weight (MT)	LCG (m)	TCG (m)	VCG (m)	FSMT (MT-m)
F.V.	1.000	10.00%	0.89	13.200f	0.055s	0.195	3.7
Subtotals:		10.00%	0.89	13.200f	0.055s	0.195	3.7

SEWAGE

Tank Name	Spgr	Load (%)	Weight (MT)	LCG (m)	TCG (m)	VCG (m)	FSMT (MT-m)
GREYWATER	1.025	10.00%	0.32	8.505f	0.029s	0.137	0.7
Subtotals:		10.00%	0.32	8.505f	0.029s	0.137	0.7

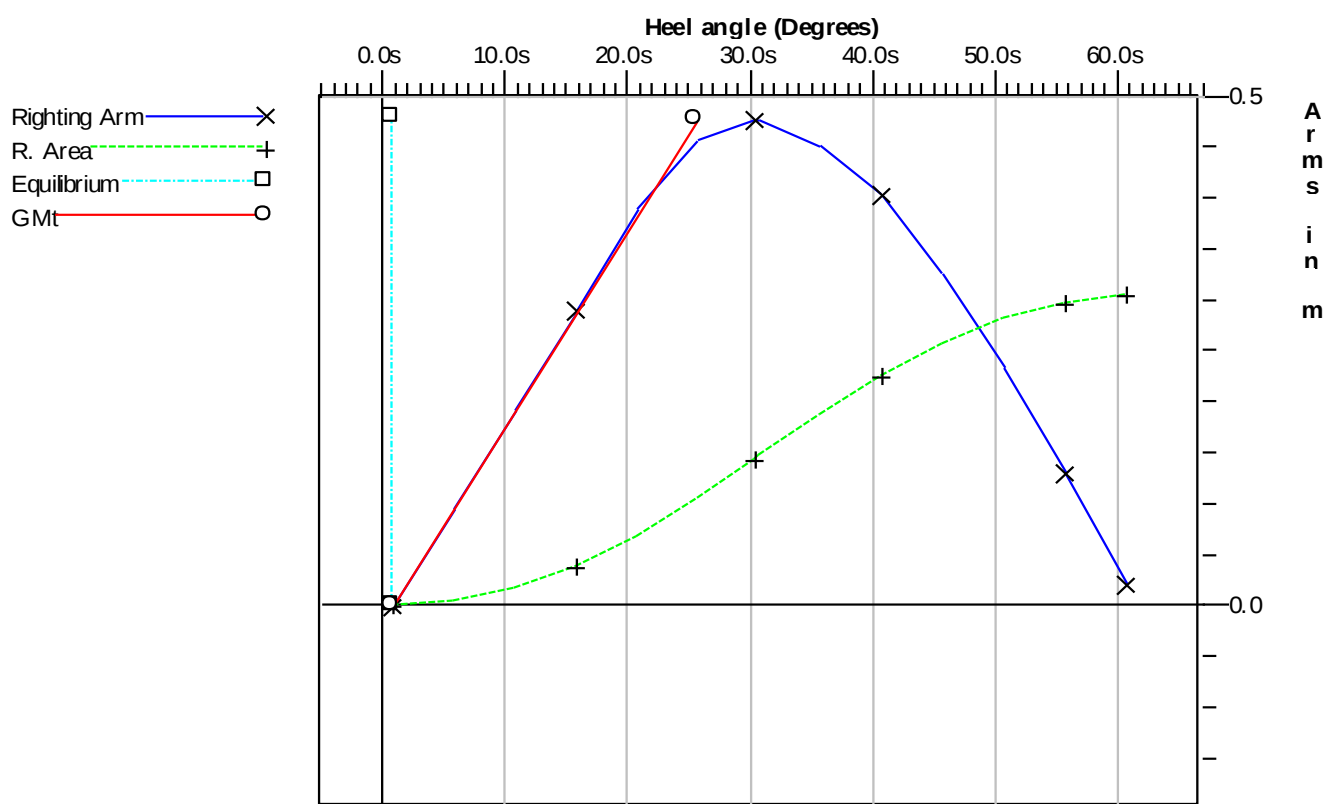
All Tanks

	Spgr	Load (%)	Weight (MT)	LCG (m)	TCG (m)	VCG (m)	FSMT (MT-m)
Totals:		10.00%	2.00	11.285f	0.047s	0.172	7.2

Righting Arms vs Heel Angle

Heel Angle (deg)	Trim Angle (deg)	Origin Depth (m)	Righting Arm (m)	Area (m-Rad)	Flood Pt Height (m)
0.76s	0.23f	1.964	0.000	0.000	
5.76s	0.25f	1.941	0.097	0.004	
10.76s	0.31f	1.883	0.193	0.017	
15.76s	0.38f	1.793	0.291	0.038	
20.76s	0.43f	1.674	0.391	0.068	
25.76s	0.46f	1.539	0.459	0.105	
30.36s	0.49f	1.411	0.476	0.143	
30.76s	0.49f	1.400	0.476	0.146	
35.76s	0.49f	1.258	0.452	0.187	
40.76s	0.49f	1.115	0.403	0.224	
45.76s	0.47f	0.967	0.326	0.256	
50.76s	0.45f	0.816	0.234	0.281	
55.76s	0.42f	0.662	0.131	0.297	
60.76s	0.39f	0.506	0.020	0.304	

Righting Arms vs. Heel - IMO A.168 (ES.IV)



IMO A.168 (ES.IV)

Limit	Min/Max	Actual	Margin	Pass
(1) Area from 0.00 deg to 30.00	>0.0550 m-R	0.146	0.091	Yes
(2) Area from 0.00 deg to 40.00 or Flood	>0.0900 m-R	0.224	0.134	Yes
(3) Area from 30.00 deg to 40.00 or Flood	>0.0300 m-R	0.078	0.048	Yes
(4) Righting Arm at 30.00 deg or MaxRA	>0.200 m	0.476	0.276	Yes
(5) Absolute Angle at MaxRA	>25.00 deg	30.36	5.36	Yes
(6) GM at Equilibrium	>0.150 m	1.103	0.953	Yes

Kondition 04aa
Maks antall passasjerer, halv last på dæk SB, 10% brennolje, 10% ferskvand

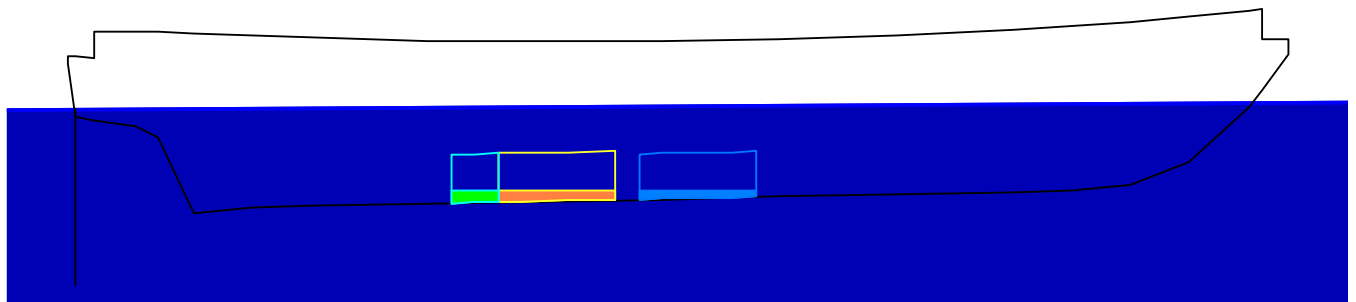
Floating Status

Draft FP	2.054 m	Heel	10.80s deg	GM(Solid)	1.149 m
Draft MS	1.985 m	Equil	Yes	F/S Corr.	0.041 m
Draft AP	1.916 m	Wind	Off	GM(Fluid)	1.108 m
Trim	0.14f m	Wave	No	KMT	3.968 m
LCG	-12.229 m	VCG-Solid	2.820 m	TPcm	1.43
Displacement	174.6 MT	WaterSpgr	1.025		

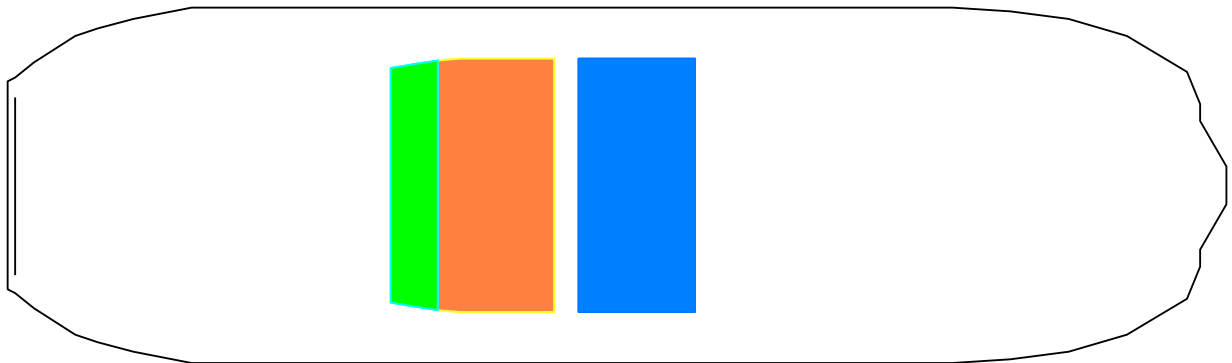
Loading Summary

Item	Weight (MT)	LCG (m)	TCG (m)	VCG (m)
Light Ship	134.84	12.151f	0.019s	2.524
Deadweight	39.80	12.496f	0.909s	3.826
Displacement	174.64	12.229f	0.222s	2.821

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Fluid Legend

Fluid Name	Legend	Weight (MT)	Load%
DIESEL OIL		.79	10.00%
FRESH WATER		.89	10.00%
SEWAGE		.32	10.00%

Fixed Weight Status

Item	Weight (MT)	LCG (m)	TCG (m)	VCG (m)
LIGHT SHIP	134.84	12.151f	0.019s	2.524u
BESÆTNING / STORES	1.00	12.000f	0.000	4.500u
LAST PÅ DÆK	30.00	12.500f	1.150s	4.200u
PASSASJERER I SALONG	3.40	13.300f	0.000	2.050u
PASSASJERER PÅ DÆK	3.40	12.500f	0.000	4.200u
Total Fixed:	172.64	12.240f	0.215s	2.850u

Tank Status DIESEL OIL

Tank Name	Spgr	Load (%)	Weight (MT)	LCG (m)	TCG (m)	VCG (m)	FSMT (MT-m)
F.O.	0.870	10.00%	0.79	10.299f	0.790s	0.242	4.4
Subtotals:		10.00%	0.79	10.299f	0.790s	0.242	4.4

FRESH WATER

Tank Name	Spgr	Load (%)	Weight (MT)	LCG (m)	TCG (m)	VCG (m)	FSMT (MT-m)
F.V.	1.000	10.00%	0.89	13.197f	0.974s	0.296	5.8
Subtotals:		10.00%	0.89	13.197f	0.974s	0.296	5.8

SEWAGE

Tank Name	Spgr	Load (%)	Weight (MT)	LCG (m)	TCG (m)	VCG (m)	FSMT (MT-m)
GREYWATER	1.025	10.00%	0.32	8.516f	0.540s	0.194	1.5
Subtotals:		10.00%	0.32	8.516f	0.540s	0.194	1.5

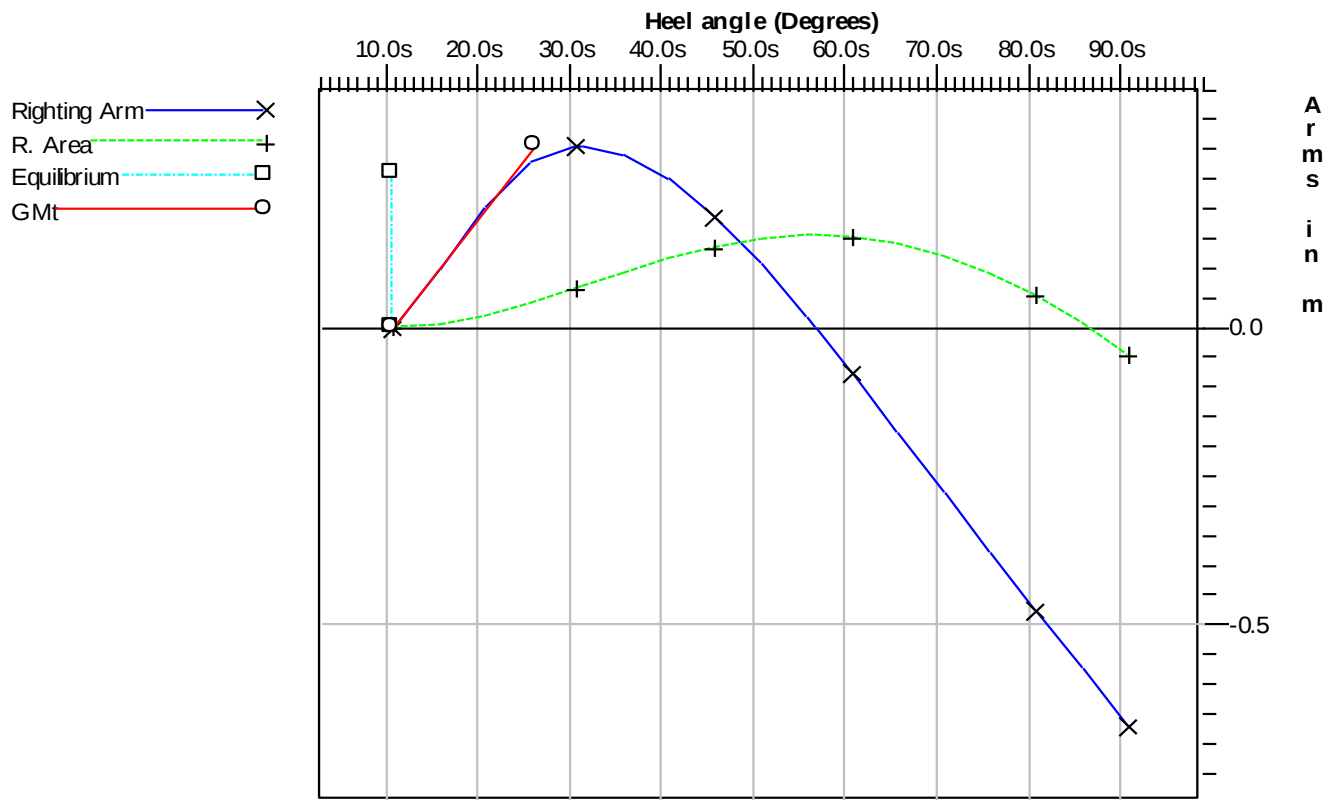
All Tanks

	Spgr	Load (%)	Weight (MT)	LCG (m)	TCG (m)	VCG (m)	FSMT (MT-m)
Totals:		10.00%	2.00	11.301f	0.832s	0.258	11.7

Righting Arms vs Heel Angle

Heel Angle (deg)	Trim Angle (deg)	Origin Depth (m)	Righting Arm (m)	Area (m-Rad)	Flood Pt Height (m)
10.80s	0.31f	1.883	0.000	0.000	
15.80s	0.37f	1.792	0.101	0.004	
20.80s	0.43f	1.673	0.207	0.018	
25.80s	0.46f	1.538	0.281	0.039	
30.80s	0.48f	1.399	0.306	0.065	
31.40s	0.48f	1.382	0.307	0.069	
35.80s	0.49f	1.258	0.291	0.092	
40.80s	0.48f	1.114	0.253	0.116	
45.80s	0.47f	0.966	0.188	0.135	
50.80s	0.45f	0.815	0.108	0.148	
55.80s	0.42f	0.661	0.019	0.154	
56.80s	0.41f	0.630	0.000	0.154	
60.80s	0.38f	0.506	-0.077	0.151	
65.80s	0.34f	0.350	-0.177	0.140	
70.80s	0.29f	0.196	-0.277	0.120	
75.80s	0.22f	0.046	-0.377	0.092	
80.80s	0.15f	-0.102	-0.475	0.055	
85.80s	0.09f	-0.256	-0.573	0.009	
90.80s	0.03f	-0.411	-0.670	-0.045	

Righting Arms vs. Heel - IMO A 168 (ES.IV)



IMO A.168 (ES.IV)

Limit	Min/Max	Actual	Margin	Pass
(1) Area from 0.00 deg to 30.00	>0.0550 m-R	0.116	0.061	Yes
(2) Area from 0.00 deg to 40.00 or Flood	>0.0900 m-R	0.148	0.058	Yes
(3) Area from 30.00 deg to 40.00 or Flood	>0.0300 m-R	0.032	0.002	Yes
(4) Righting Arm at 30.00 deg or MaxRA	>0.200 m	0.253	0.053	Yes
(5) Absolute Angle at MaxRA	>25.00 deg	31.40	6.40	Yes
(6) GM at Equilibrium	>0.150 m	1.139	0.989	Yes

Conclusion:

GZ max at 30 tons in CL = 0,476 meter

Lever at 30 tons 1,150 meter from CL = 0,204 meter

Criterion fulfilled.