

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

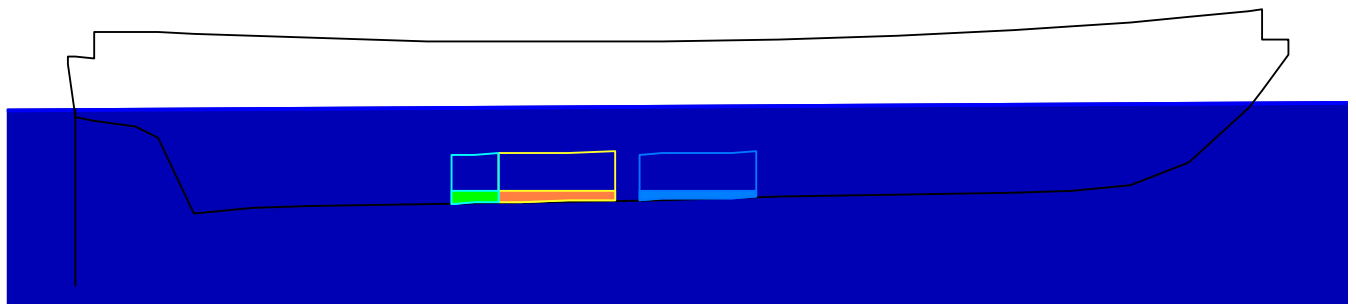
Floating Status

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		

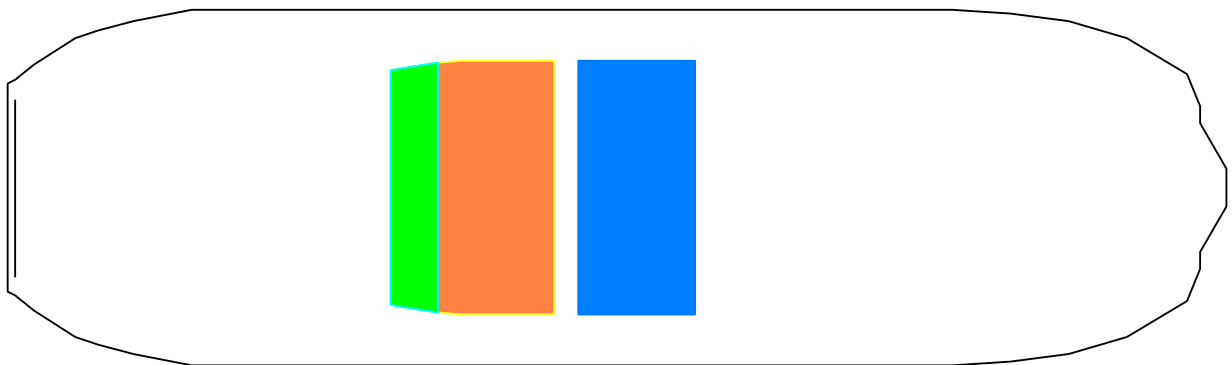
Loading Summary

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

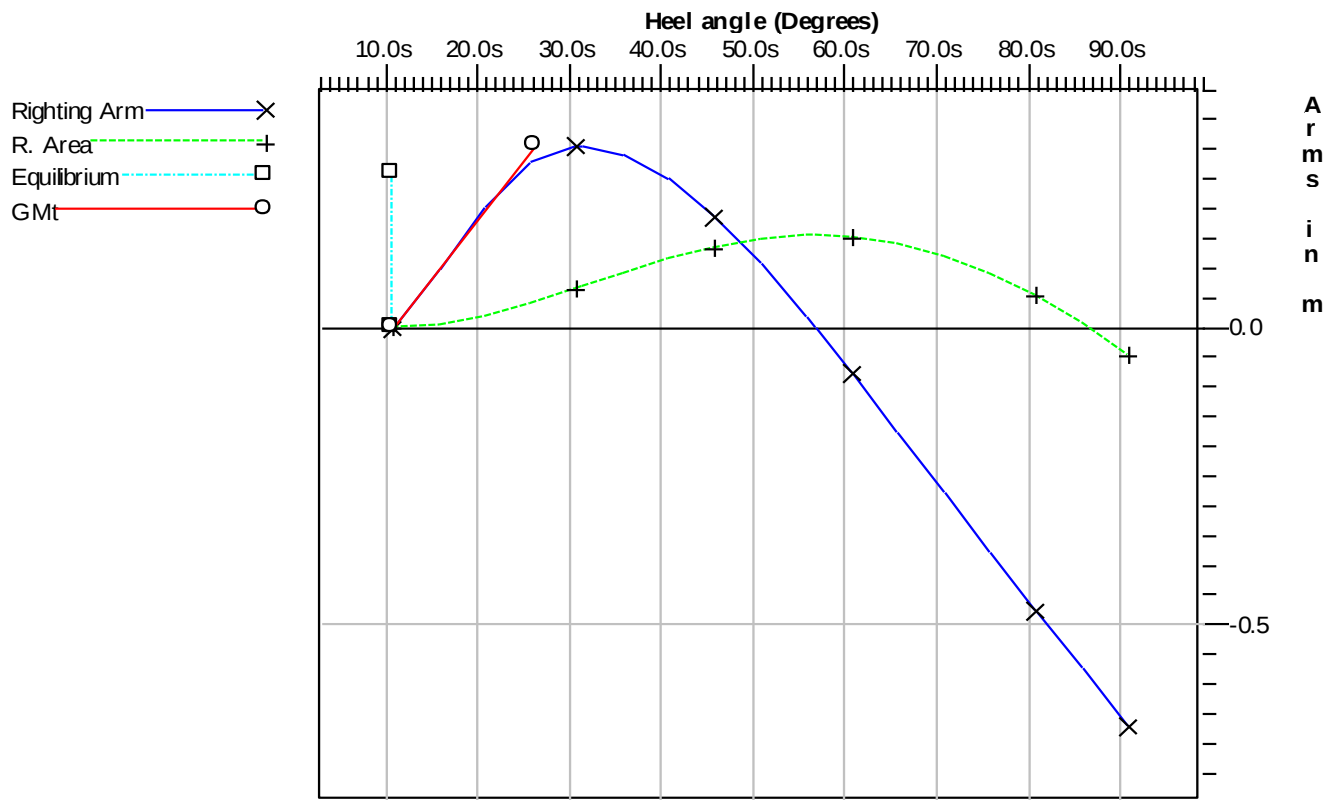
All Tanks

	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

Kondition 04bb
Maks antall passasjerer, halv last på dæk, 100% brennolje, 100% ferskvand

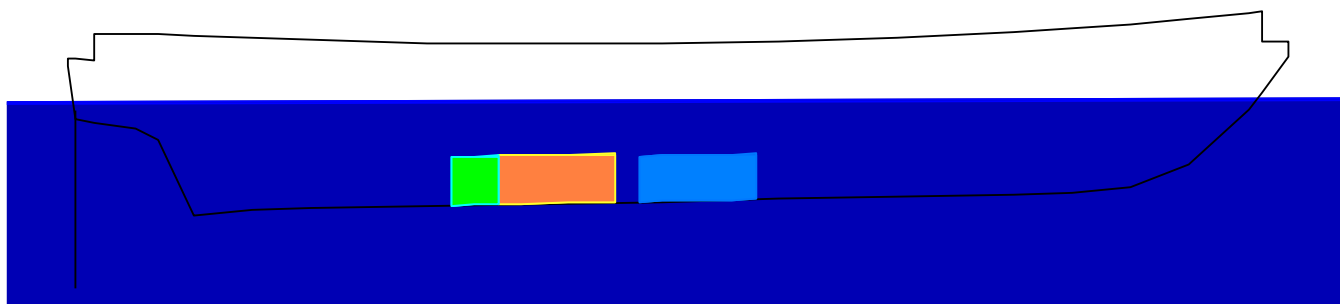
Floating Status

Draft FP	2.171 m	Heel	0.70s deg	GM(Solid)	1.313 m
Draft MS	2.136 m	Equil	Yes	F/S Corr.	0.313 m
Draft AP	2.100 m	Wind	Off	GM(Fluid)	1.000 m
Trim	0.07f m	Wave	No	KMT	3.935 m
LCG	-12.145 m	VCG-Solid	2.622 m	TPcm	1.46
Displacement	192.2 MT	WaterSpgr	1.025		

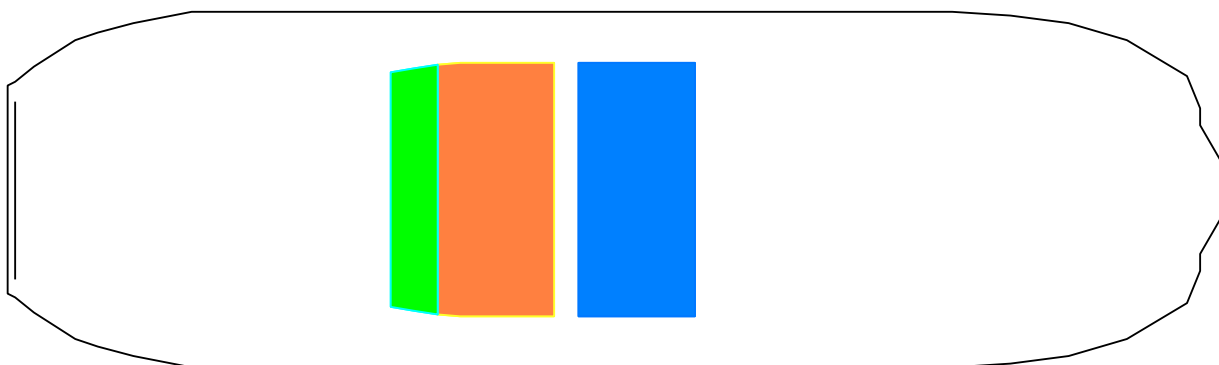
Loading Summary

Item	Weight (MT)	LCG (m)	TCG (m)	VCG (m)
Light Ship	134.84	12.151f	0.019s	2.524
Deadweight	57.36	12.132f	0.010s	2.852
Displacement	192.20	12.145f	0.016s	2.622

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Fluid Legend

Fluid Name	Legend	Weight (MT)	Load%
DIESEL OIL		7.71	98.00%
FRESH WATER		8.70	98.00%
SEWAGE		3.15	98.00%

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	98.00%	7.71	10.270f	0.028s	0.605	9.2
Subtotals:		98.00%	7.71	10.270f	0.028s	0.605	9.2

FRESH WATER

Tank Name	Spgr	Load (%)	Weight (MT)	LCG (m)	TCG (m)	VCG (m)	FSMT (MT-m)
F.V.	1.000	98.00%	8.70	13.242f	0.029s	0.611	11.0
Subtotals:		98.00%	8.70	13.242f	0.029s	0.611	11.0

SEWAGE

Tank Name	Spgr	Load (%)	Weight (MT)	LCG (m)	TCG (m)	VCG (m)	FSMT (MT-m)
GREYWATER	1.025	98.00%	3.15	8.507f	0.028s	0.586	3.1
Subtotals:		98.00%	3.15	8.507f	0.028s	0.586	3.1

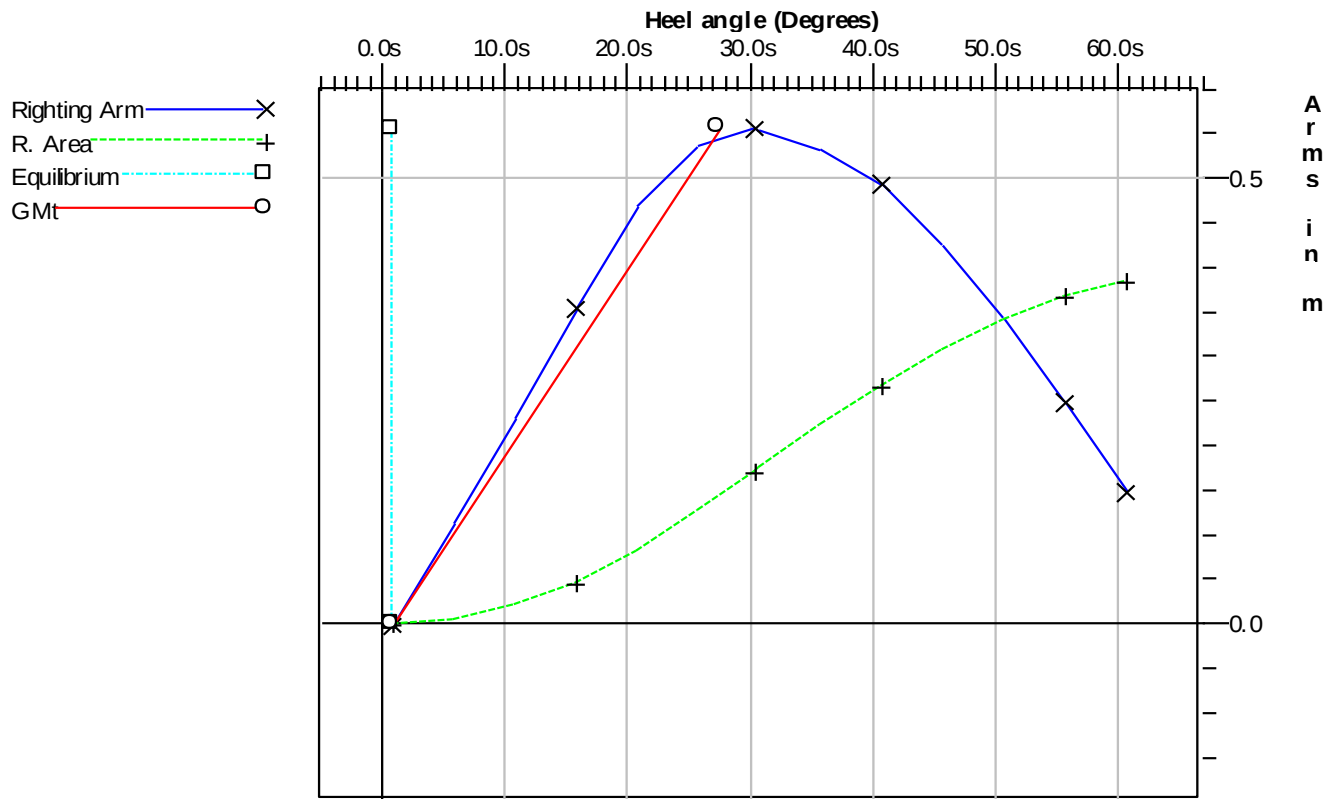
All Tanks

	Spgr	Load (%)	Weight (MT)	LCG (m)	TCG (m)	VCG (m)	FSMT (MT-m)
Totals:		98.00%	19.56	11.308f	0.028s	0.604	23.2

Righting Arms vs Heel Angle

Heel Angle (deg)	Trim Angle (deg)	Origin Depth (m)	Righting Arm (m)	Area (m-Rad)	Flood Pt Height (m)
0.70s	0.16f	2.100	0.000	0.000	
5.70s	0.18f	2.078	0.114	0.005	
10.70s	0.23f	2.022	0.232	0.020	
15.70s	0.27f	1.935	0.354	0.046	
20.70s	0.29f	1.824	0.471	0.082	
25.70s	0.30f	1.707	0.537	0.126	
30.30s	0.26f	1.602	0.556	0.170	
30.70s	0.26f	1.593	0.556	0.174	
35.70s	0.23f	1.473	0.534	0.222	
40.70s	0.19f	1.349	0.493	0.267	
45.70s	0.14f	1.220	0.425	0.307	
50.70s	0.09f	1.086	0.343	0.341	
55.70s	0.04f	0.946	0.249	0.367	
60.70s	0.02a	0.802	0.149	0.384	

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	0.174	0.119	Yes
(2) Area from 0.00 deg to 40.00 or Flood	>0.0900 m-R	0.267	0.177	Yes
(3) Area from 30.00 deg to 40.00 or Flood	>0.0300 m-R	0.093	0.063	Yes
(4) Righting Arm at 30.00 deg or MaxRA	>0.200 m	0.556	0.356	Yes
(5) Absolute Angle at MaxRA	>25.00 deg	30.30	5.30	Yes
(6) GM at Equilibrium	>0.150 m	1.194	1.044	Yes

Conclusion:

GZ max at 30 tons in CL = 0,556 meter

Lever at 30 tons 1,150 meter from CL = 0,180 meter

Criterion fulfilled.