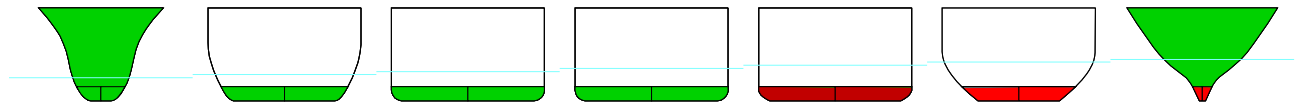
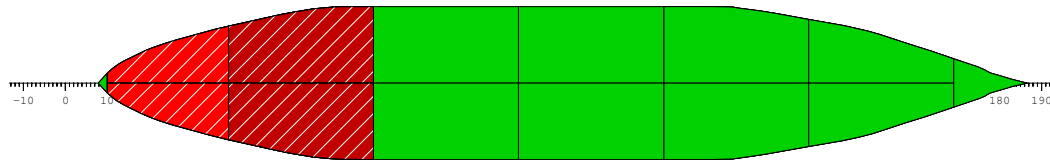
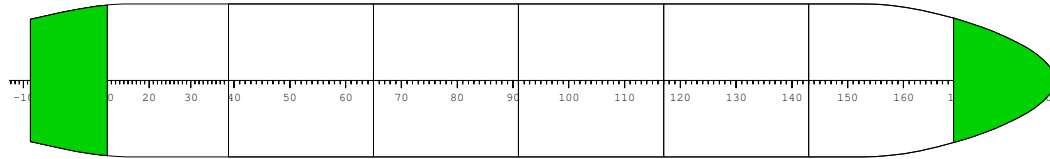
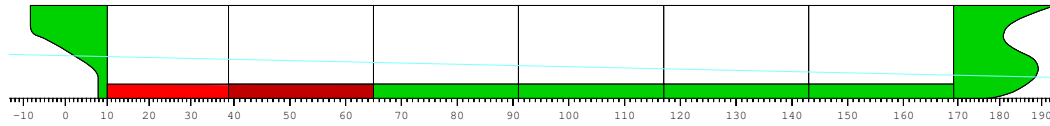


Napa Oy
NAPA/D/LD/161102
IRPSHIPV5/A
IRPSHIPV5

LOADING CONDITIONS

DATE 2022-07-13
TIME 2:44 pm
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LOADING CONDITION: BALLAST_DEPARTURE_IRP -



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 IRPSHIPV5/A
 IRPSHIPV5

LOADING CONDITIONS
 BALLAST_DEPARTURE_IRP

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LOAD	MASS t	XM m	YM m	ZM m	FRSM tm
Deadweight	5404.8	65.51	0.00	3.23	21063.98
Lightweight	5381.6	58.97	0.00	7.03	
Deadweight	5404.8	65.51	0.00	3.23	
Total weight	10786.4	62.25	0.00	5.13	

FLOATING POSITION

Draught moulded	4.610	m	KM	10.82	m
Trim	-2.945	m	KG	5.13	m
Heel, PS=+	0.0	deg			
TA	6.082	m	GM0	5.70	m
TF	3.137	m	GMCORR	-1.95	m
Trimming moment	-64378	tonm	GM	3.74	m

Stability Criteria

RCR	TEXT	REQ	ATTN	UNIT	STAT
AREA30	Area under GZ curve .	0.055	0.531	mrاد	OK
AREA40	Area under GZ curve .	0.090	0.922	mrاد	OK
AREA3040	Area under GZ curve .	0.030	0.392	mrاد	OK
GZ0.2	Max GZ > 0.2	0.200	2.794	m	OK
MAXGZ25	Max. GZ at an angle .	25.000	52.985	deg	OK
GM0.15	GM > 0.15 m	0.150	3.743	m	OK

Longitudinal Strength

			X	Frame
Shear force (min)	-917.6 t	(-)	111.290 m	148.86
Shear force (max)	1339.5 t	(-)	23.400 m	39.00
Sagging moment	-2.6 tm	(-)	138.282 m	187.14
Hogging moment	48631.1 tm	(-)	57.200 m	81.25

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LOADING CONDITIONS

BALLAST_DEPARTURE_IRP

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List of Loads

NAME	LOAD	MASS t	FILL %	XM m	YM m	ZM m	FRSM tm
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CONTENTS=Ballast Water (RHO=1.025)

FOREPEAK	BW	633.9	100.0	130.75	0.00	7.62	0.00
AFTPEAK	BW	841.9	100.0	1.87	0.00	10.31	1267.66
NO1DBP	BW	206.5	100.0	115.27	3.15	0.89	0.00
NO1DBS	BW	206.5	100.0	115.27	-3.15	0.89	0.00
NO2DBP	BW	411.4	100.0	95.79	5.02	1.01	0.00
NO2DBS	BW	411.4	100.0	95.79	-5.02	1.01	0.00
NO3DBP	BW	447.2	100.0	75.40	5.36	1.02	0.00
NO3DBS	BW	447.2	100.0	75.40	-5.36	1.02	0.00
NO4DBP	BW	447.0	100.0	54.61	5.35	1.02	0.00
NO4DBS	BW	447.0	100.0	54.61	-5.35	1.02	0.00
SUBTOTAL	BW	4500.1		72.70	0.00	3.67	1267.66

CONTENTS=Diesel Oil (RHO=0.86)

DOP	DO	119.5	95.0	16.67	2.54	1.02	252.35
DOS	DO	119.5	95.0	16.67	-2.54	1.02	0.00
SUBTOTAL	DO	238.9		16.67	0.00	1.02	252.35

CONTENTS=Heavy Fuel Oil (RHO=0.94)

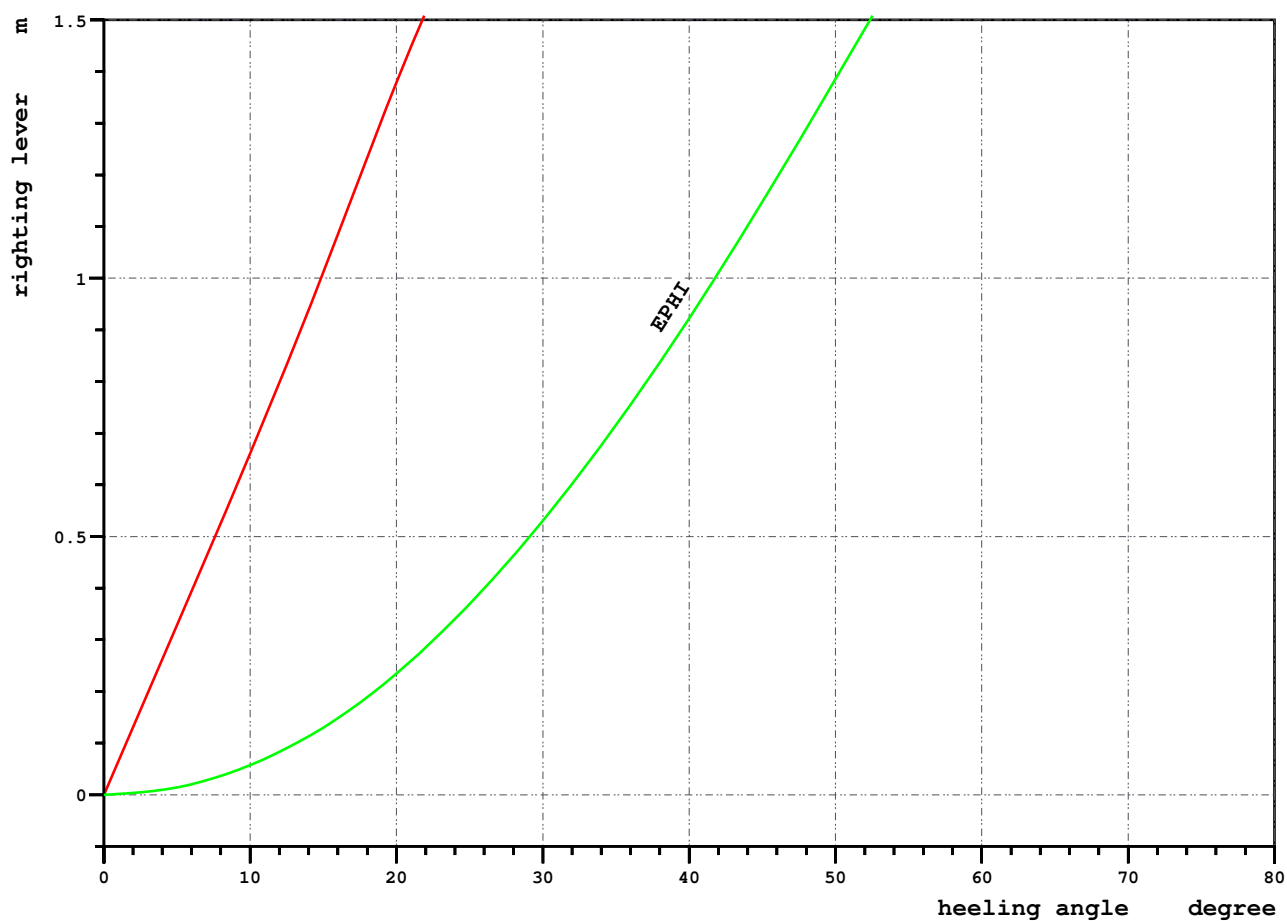
HFOP	HFO	332.9	95.0	34.49	4.64	0.99	1604.15
HFOS	HFO	332.9	95.0	34.49	-4.64	0.99	0.00
SUBTOTAL	HFO	665.8		34.49	0.00	0.99	1604.15
TOTAL		5404.8		65.51	0.00	3.23	3124.16

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LOADING CONDITIONS
 BALLAST_DEPARTURE_IRP

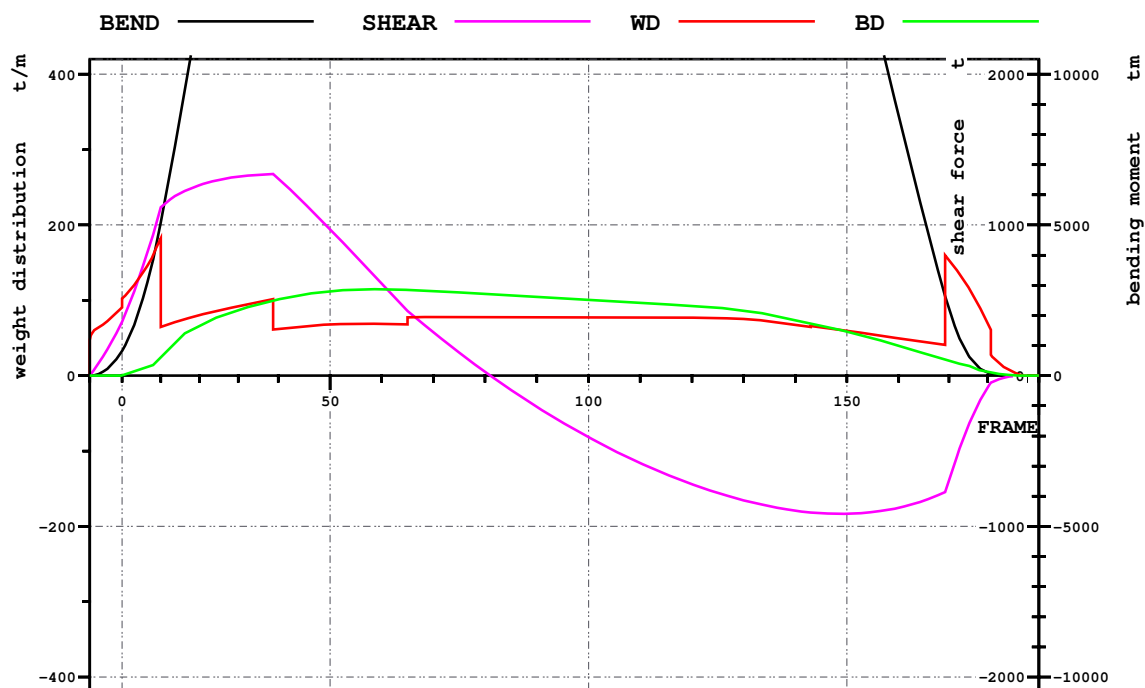
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Stability Curve



HEEL degree	MS m	HPHI m	EPHI mrad	FSMOM tm	DGZ m
0.0	0.000	0.00	0.000	0.0	0.000
5.0	0.002	0.33	0.014	1842.9	0.171
10.0	0.016	0.66	0.057	3714.6	0.344
15.0	0.055	1.01	0.130	5586.3	0.518
20.0	0.124	1.38	0.234	7478.8	0.693
30.0	0.206	1.99	0.531	11487.4	1.065
40.0	0.065	2.48	0.922	13422.8	1.244
50.0	-0.316	2.78	1.386	13703.3	1.270
60.0	-1.009	2.71	1.870	13066.0	1.211
70.0	-1.874	2.38	2.317	11797.6	1.094
80.0	-2.780	1.90	2.692	10056.5	0.932

Longitudinal Strength



X m	FR #	BEND tm	SHEAR t	WD t/m	BD t/m
64.950	90.94	47719	-227	77.51	104.27
86.600	118.00	37356	-694	77.10	93.40
108.250	145.06	19440	-914	63.92	66.13
129.899	173.16	1129	-456	131.40	15.41
151.549	209.25	0	0	0.00	0.00

			X	Frame
Shear force (min)	-917.6 t	(-)	111.290 m	148.86
Shear force (max)	1339.5 t	(-)	23.400 m	39.00
Sagging moment	-2.6 tm	(-)	138.282 m	187.14
Hogging moment	48631.1 tm	(-)	57.200 m	81.25