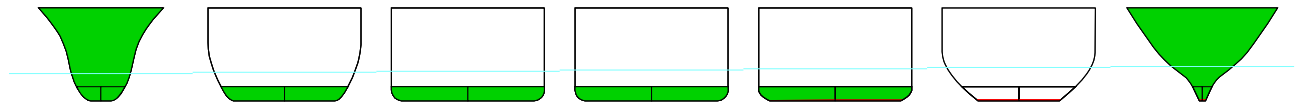
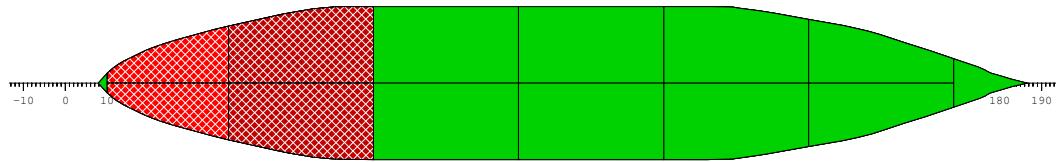
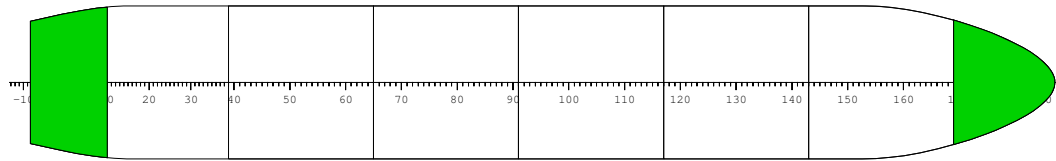
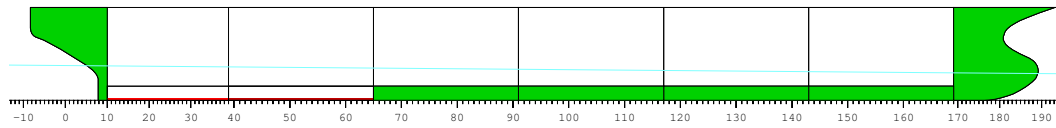


Napa Oy
NAPA/D/LD/161102
IRPSHIPV5/A
IRPSHIPV5

LOADING CONDITIONS

DATE 2022-07-13
TIME 2:43 pm
USER M352
Page 1

LOADING CONDITION: BALLAST_ARRIVAL_IRP -



Napa Oy
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 IRPSHIPV5/A
 IRPSHIPV5

LOADING CONDITIONS
 BALLAST_ARRIVAL_IRP

DATE 2022-07-13
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LOAD	MASS t	XM m	YM m	ZM m	FRSM tm
Deadweight	4831.1	73.53	0.00	3.85	21148.02
Lightweight	5381.6	58.97	0.00	7.03	
Deadweight	4831.1	73.53	0.00	3.85	
Total weight	10212.7	65.86	0.00	5.53	

FLOATING POSITION

Draught moulded	4.402	m	KM	10.98	m
Trim	-1.124	m	KG	5.53	m
Heel, PS=+	0.0	deg			
TA	4.964	m	GM0	5.45	m
TF	3.841	m	GMCORR	-2.07	m
Trimming moment	-23826	tonm	GM	3.38	m

Stability Criteria

RCR	TEXT	REQ	ATTN	UNIT	STAT
AREA30	Area under GZ curve .	0.055	0.477	mrاد	OK
AREA40	Area under GZ curve .	0.090	0.816	mrاد	OK
AREA3040	Area under GZ curve .	0.030	0.339	mrاد	OK
GZ0.2	Max GZ > 0.2	0.200	2.418	m	OK
MAXGZ25	Max. GZ at an angle .	25.000	52.517	deg	OK
GM0.15	GM > 0.15 m	0.150	3.383	m	OK

Longitudinal Strength

			X	Frame
Shear force (min)	-963.4	t (-)	114.400	m 152.75
Shear force (max)	1458.4	t (-)	23.400	m 39.00
Sagging moment	-			
Hogging moment	49225.7	tm (-)	54.600	m 78.00

Napa Oy
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 IRPSHIPV5

LOADING CONDITIONS
 BALLAST_ARRIVAL_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	745.7	100.0	131.04	0.00	8.42	0.00
AFTPEAK	BW	873.6	100.0	1.83	0.00	10.42	1339.83
NO1DBP	BW	246.4	100.0	115.30	3.21	1.05	0.00
NO1DBS	BW	246.4	100.0	115.30	-3.21	1.05	0.00
NO2DBP	BW	417.3	100.0	95.79	5.03	1.02	0.00
NO2DBS	BW	417.3	100.0	95.79	-5.03	1.02	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	4735.2		74.41	0.00	3.92	1339.83
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CONTENTS=Diesel Oil (RHO=0.86)

DOP	DO	12.9	10.0	17.06	2.07	0.13	261.82
DOS	DO	12.9	10.0	17.06	-2.07	0.13	0.00

SUBTOTAL	DO	25.8		17.06	0.00	0.13	261.82
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CONTENTS=Heavy Fuel Oil (RHO=0.94)

HFOP	HFO	35.1	10.0	34.58	4.15	0.11	1606.55
HFOS	HFO	35.1	10.0	34.58	-4.15	0.11	0.00

SUBTOTAL	HFO	70.2		34.58	0.00	0.11	1606.55
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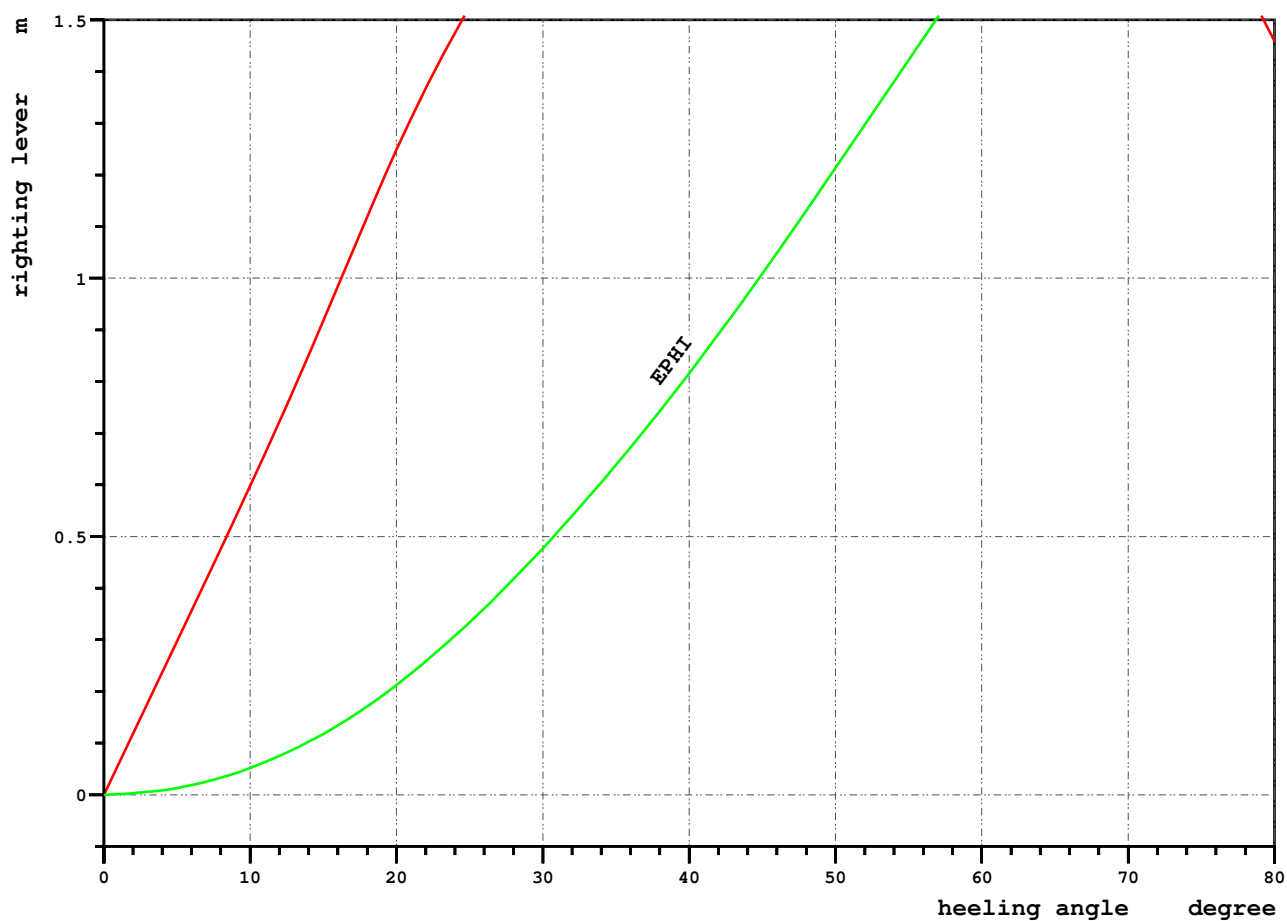
TOTAL		4831.1		73.53	0.00	3.85	3208.20
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Napa Oy
NAPA/D/LD/161102
IRPSHIPV5/A
IRPSHIPV5

LOADING CONDITIONS
BALLAST_ARRIVAL_IRP

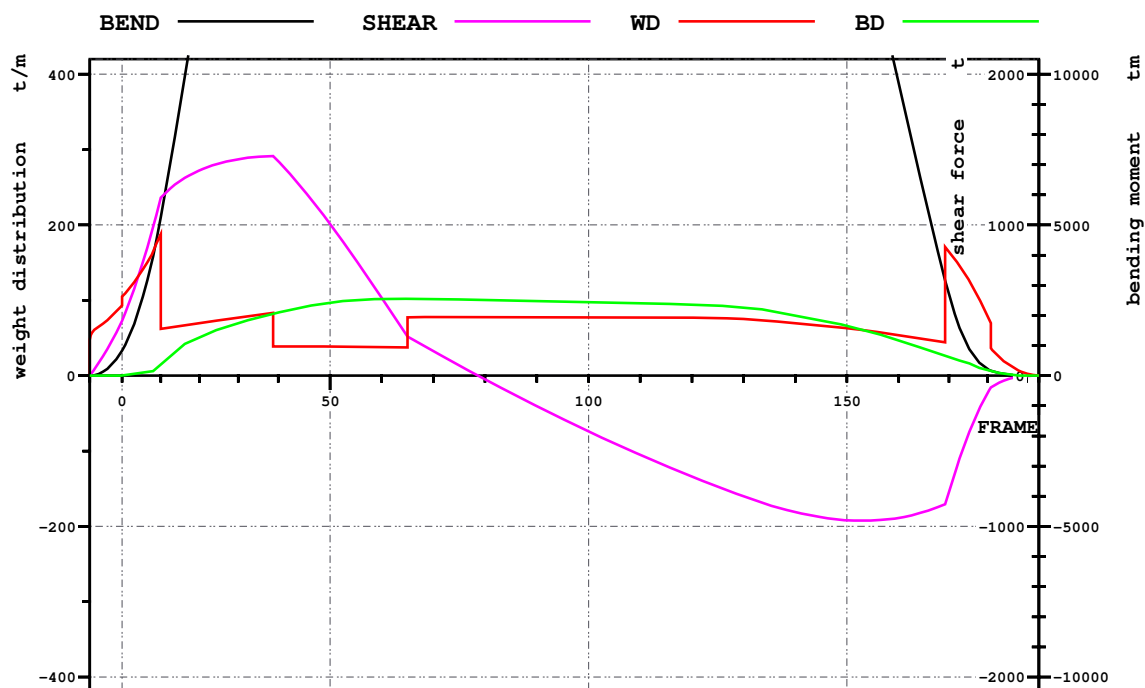
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Stability Curve



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	0.30	0.013	1850.2	0.181
10.0	0.015	0.60	0.052	3729.4	0.365
15.0	0.054	0.92	0.118	5608.7	0.549
20.0	0.118	1.25	0.212	7508.7	0.735
30.0	0.152	1.75	0.477	11533.3	1.129
40.0	-0.064	2.12	0.816	13481.8	1.320
50.0	-0.429	2.40	1.213	13766.2	1.348
60.0	-1.131	2.31	1.630	13127.9	1.285
70.0	-2.001	1.96	2.005	11855.1	1.161
80.0	-2.922	1.46	2.305	10107.2	0.990

Longitudinal Strength



X m	FR #	BEND tm	SHEAR t	WD t/m	BD t/m
64.950	90.94	48134	-218	77.51	98.90
86.600	118.00	38661	-641	77.10	94.65
108.250	145.06	21116	-941	66.28	73.02
129.899	173.16	1466	-521	142.17	19.58
151.549	209.25	0	0	0.00	0.00

	X	Frame
Shear force (min)	-963.4 t (-)	114.400 m 152.75
Shear force (max)	1458.4 t (-)	23.400 m 39.00
Sagging moment	-	
Hogging moment	49225.7 tm (-)	54.600 m 78.00