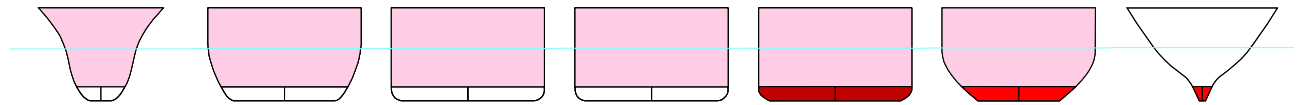
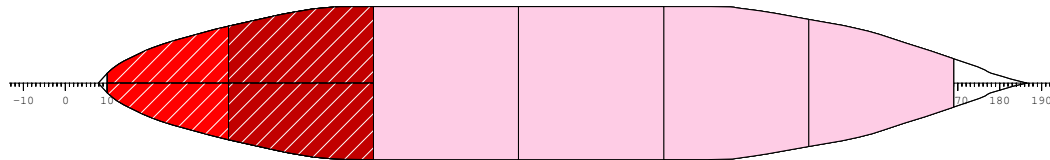
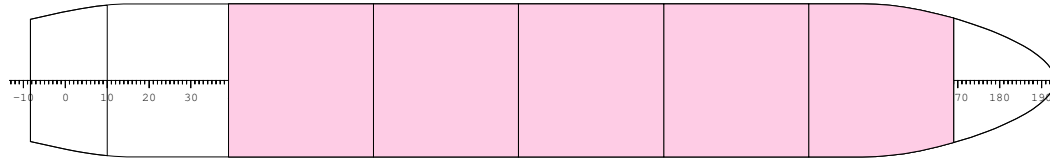
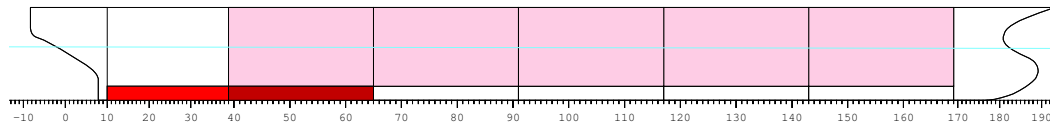


Napa Oy
NAPA/D/LD/161102
IRPSHIPV5/A
IRPSHIPV5

LOADING CONDITIONS

DATE 2022-07-13
TIME 2:46 pm
USER M352
Page 1

LOADING CONDITION: FULL_LOAD_DEPARTURE_IRP -



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

LOADING CONDITIONS
 FULL_LOAD_DEPARTURE_IRP

DATE 2022-07-13
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LOAD	MASS t	XM m	YM m	ZM m	FRSM tm
Deadweight	12978.2	70.38	0.00	7.26	12105.94
Lightweight	5381.6	58.97	0.00	7.03	
Deadweight	12978.2	70.38	0.00	7.26	
Total weight	18359.8	67.04	0.00	7.19	

FLOATING POSITION

Draught moulded	7.519	m	KM	9.24	m
Trim	-0.193	m	KG	7.19	m
Heel, PS=+	0.0	deg			
TA	7.615	m	GM0	2.05	m
TF	7.423	m	GMCORR	-0.66	m
Trimming moment	-4652	tonm	GM	1.39	m

Stability Criteria

RCR	TEXT	REQ	ATTN	UNIT	STAT
AREA30	Area under GZ curve .	0.055	0.236	mrاد	OK
AREA40	Area under GZ curve .	0.090	0.456	mrاد	OK
AREA3040	Area under GZ curve .	0.030	0.220	mrاد	OK
GZ0.2	Max GZ > 0.2	0.200	1.409	m	OK
MAXGZ25	Max. GZ at an angle .	25.000	42.910	deg	OK
GM0.15	GM > 0.15 m	0.150	1.388	m	OK

Longitudinal Strength

			X	Frame
Shear force (min)	-329.0 t	(-)	105.170 m	141.21
Shear force (max)	375.5 t	(-)	44.200 m	65.00
Sagging moment	-178.2 tm	(-)	126.269 m	167.59
Hogging moment	10527.6 tm	(-)	72.853 m	100.82

Napa Oy
NAPA/D/LD/161102
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LOADING CONDITIONS

FULL_LOAD_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=Cargo (RHO=0.5)

CARGOHOLD1	CA	1996.6	100.0	115.98	0.00	8.05	0.00
CARGOHOLD2	CA	2511.7	100.0	96.15	0.00	7.68	0.00
CARGOHOLD3	CA	2526.8	100.0	75.40	0.00	7.65	8969.91
CARGOHOLD4	CA	2526.8	100.0	54.60	0.00	7.65	0.00
CARGOHOLD5	CA	2505.0	100.0	33.86	0.00	7.69	0.00

SUBTOTAL	CA	12066.9		73.46	0.00	7.73	8969.91

CONTENTS=Diesel Oil (RHO=0.86)

DOP	DO	122.4	95.0	16.66	2.56	1.04	261.82
DOS	DO	122.4	95.0	16.66	-2.56	1.04	0.00

SUBTOTAL	DO	244.8		16.66	0.00	1.04	261.82

CONTENTS=Heavy Fuel Oil (RHO=0.94)

HFOP	HFO	333.2	95.0	34.49	4.64	0.99	1606.55
HFOS	HFO	333.2	95.0	34.49	-4.64	0.99	0.00

SUBTOTAL	HFO	666.4		34.49	0.00	0.99	1606.55

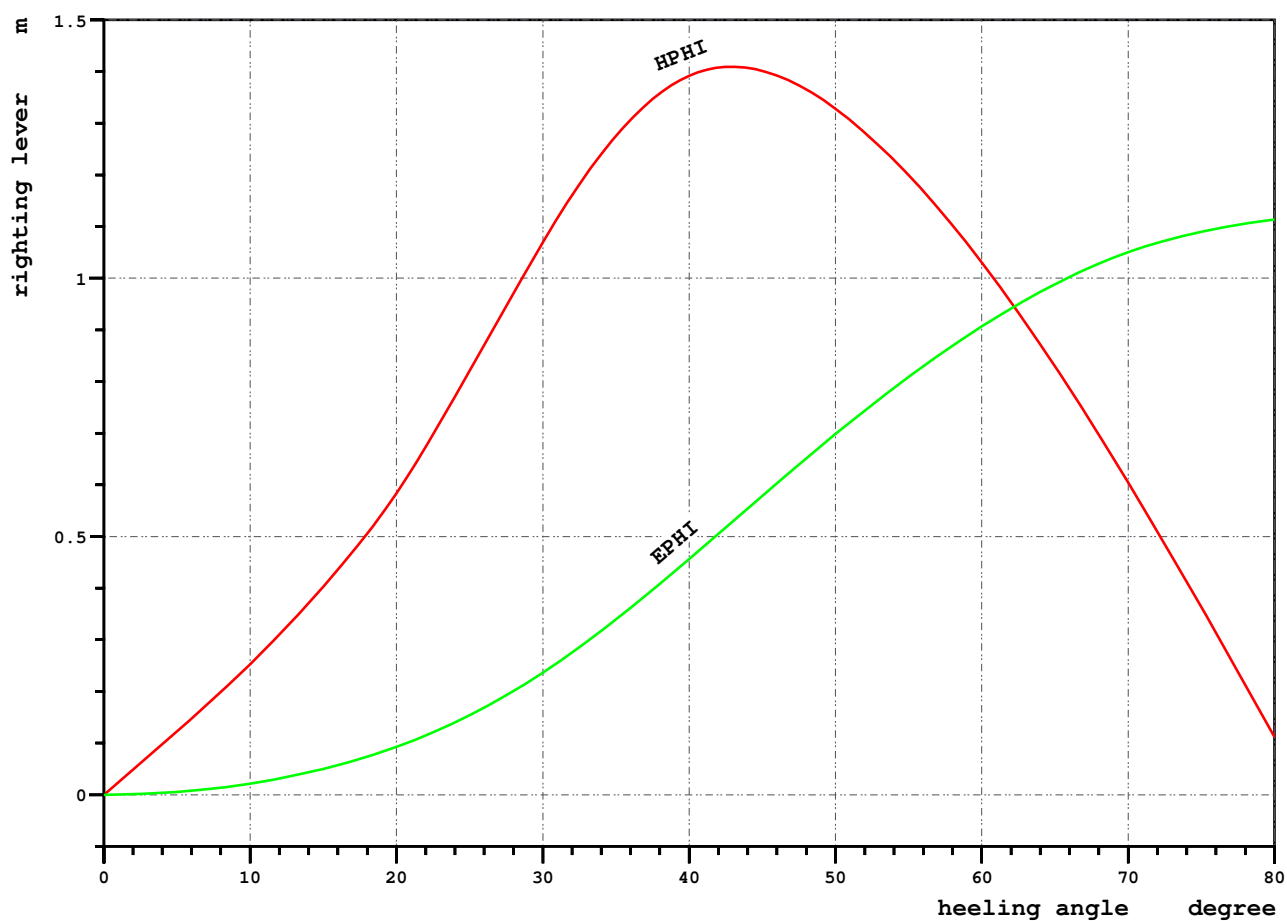
TOTAL		12978.2		70.38	0.00	7.26	10838.28

Napa Oy
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 IRPSHIPV5/A
 IRPSHIPV5

LOADING CONDITIONS
 FULL_LOAD_DEPARTURE_IRP

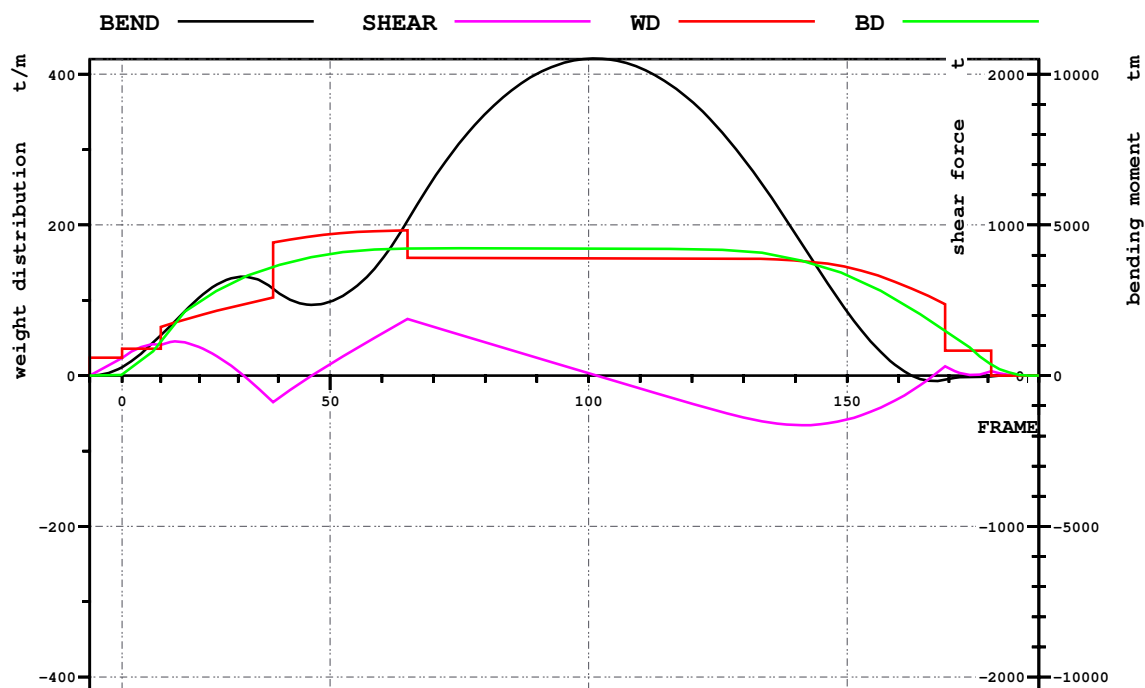
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Stability Curve



HEEL degree	MS m	HPHI m	E PHI mrad	FSMOM tm	DGZ m
0.0	0.000	0.00	0.000	0.0	0.000
5.0	0.002	0.12	0.005	1059.1	0.058
10.0	0.013	0.25	0.022	2134.9	0.116
15.0	0.046	0.40	0.050	3184.5	0.173
20.0	0.112	0.58	0.093	4211.3	0.229
30.0	0.392	1.07	0.236	6358.5	0.346
40.0	0.480	1.39	0.456	7429.1	0.405
50.0	0.172	1.33	0.698	7583.1	0.413
60.0	-0.349	1.03	0.907	7227.8	0.394
70.0	-0.965	0.60	1.051	6522.8	0.355
80.0	-1.602	0.11	1.114	5556.0	0.303

Longitudinal Strength



X m	FR #	BEND tm	SHEAR t	WD t/m	BD t/m
64.950	90.94	10098	109	155.99	168.84
86.600	118.00	9380	-166	155.59	167.97
108.250	145.06	3365	-322	149.53	144.61
129.899	173.16	-56	15	33.29	45.14
151.549	209.25	0	0	0.00	0.00

	X	Frame
Shear force (min)	-329.0 t (-)	105.170 m 141.21
Shear force (max)	375.5 t (-)	44.200 m 65.00
Sagging moment	-178.2 tm (-)	126.269 m 167.59
Hogging moment	10527.6 tm (-)	72.853 m 100.82