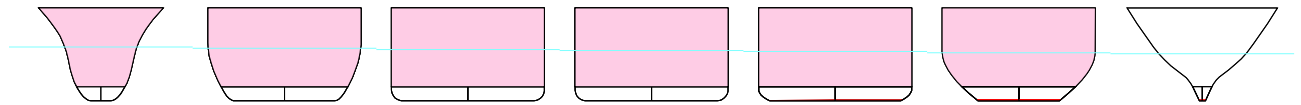
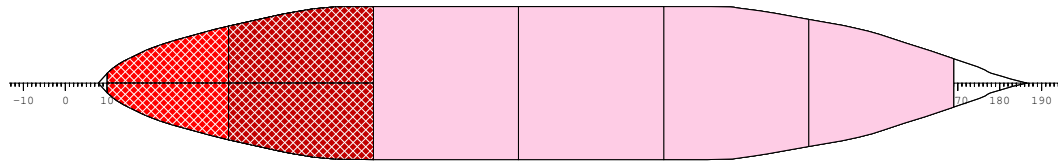
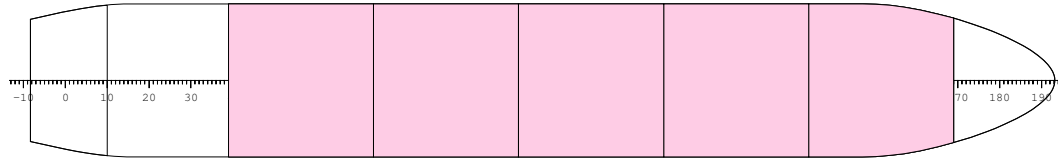
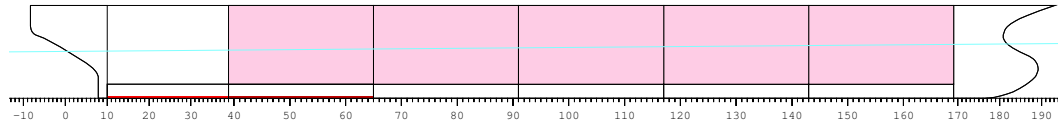


Napa Oy
NAPA/D/LD/161102
IRPSHIPV5/A
IRPSHIPV5

LOADING CONDITIONS

DATE 2022-07-13
TIME 2:45 pm
USER M352
Page 1

LOADING CONDITION: FULL_LOAD_ARRIVAL_IRP -



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

LOADING CONDITIONS
 FULL_LOAD_ARRIVAL_IRP

DATE 2022-07-13
 TIME 2:45 pm
 USER M352
 Page 2

LOAD	MASS t	XM m	YM m	ZM m	FRSM tm
Deadweight	12162.9	73.11	0.00	7.67	12105.94
Lightweight	5381.6	58.97	0.00	7.03	
Deadweight	12162.9	73.11	0.00	7.67	
Total weight	17544.4	68.77	0.00	7.47	

FLOATING POSITION

Draught moulded	7.228	m	KM	9.26	m
Trim	1.047	m	KG	7.47	m
Heel, PS=+	0.0	deg			
TA	6.705	m	GM0	1.79	m
TF	7.752	m	GMCORR	-0.69	m
Trimming moment	24518	tonm	GM	1.10	m

Stability Criteria

RCR	TEXT	REQ	ATTN	UNIT	STAT
AREA30	Area under GZ curve .	0.055	0.198	mrاد	OK
AREA40	Area under GZ curve .	0.090	0.394	mrاد	OK
AREA3040	Area under GZ curve .	0.030	0.196	mrاد	OK
GZ0.2	Max GZ > 0.2	0.200	1.273	m	OK
MAXGZ25	Max. GZ at an angle .	25.000	42.425	deg	OK
GM0.15	GM > 0.15 m	0.150	1.099	m	OK

Longitudinal Strength

			X	Frame
Shear force (min)	-257.6 t	(-)	106.600 m	143.00
Shear force (max)	289.5 t	(-)	9.644 m	16.07
Sagging moment	-193.5 tm	(-)	124.800 m	165.75
Hogging moment	7846.9 tm	(-)	74.322 m	102.65

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

LOADING CONDITIONS

FULL_LOAD_ARRIVAL_IRP

DATE 2022-07-13
TIME 2:45 pm
USER M352
Page 3

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	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

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

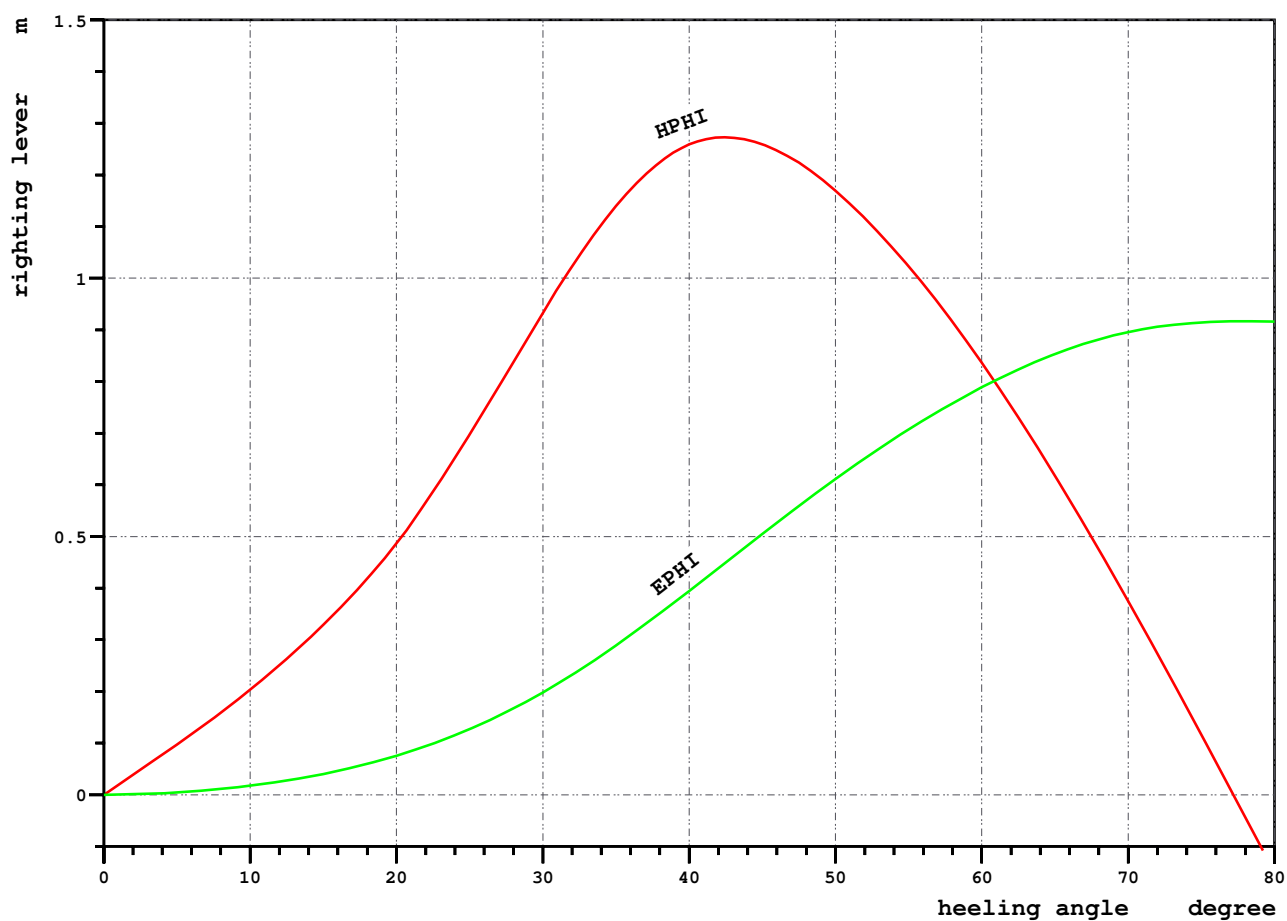
TOTAL		12162.9		73.11	0.00	7.67	10838.28

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 NAPA/D/LD/161102
 IRPSHIPV5/A
 IRPSHIPV5

LOADING CONDITIONS
 FULL_LOAD_ARRIVAL_IRP

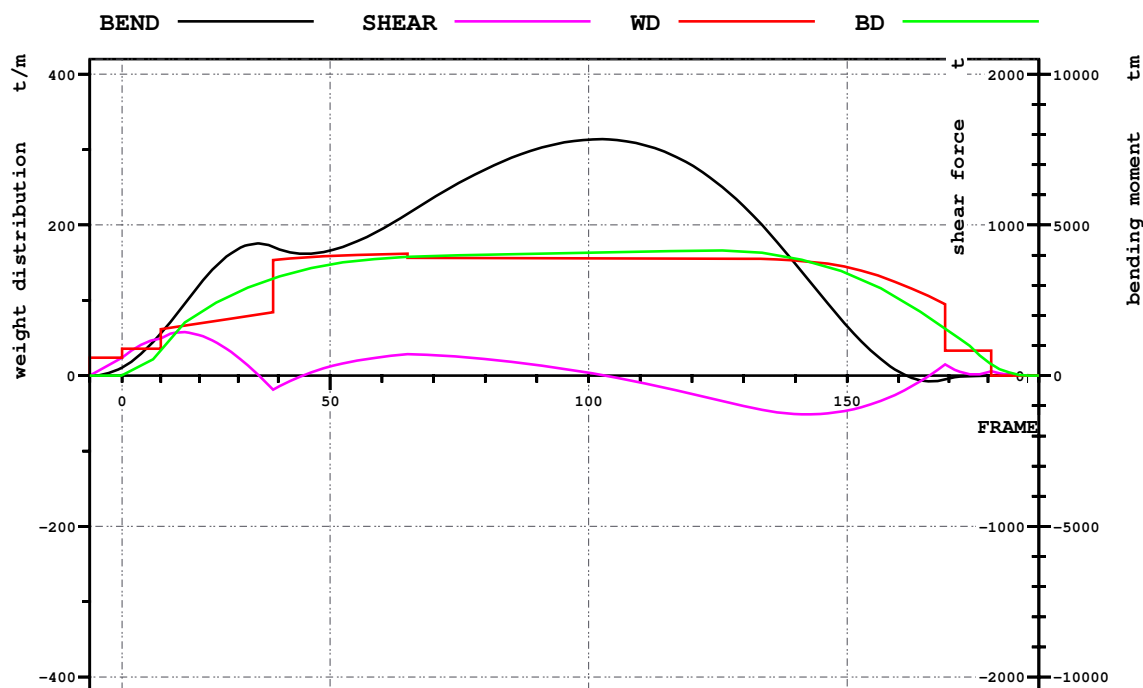
DATE 2022-07-13
 TIME 2:45 pm
 USER M352
 Page 4

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	0.10	0.004	1059.1	0.060
10.0	0.014	0.20	0.017	2134.9	0.122
15.0	0.048	0.33	0.040	3184.5	0.182
20.0	0.115	0.49	0.076	4211.3	0.240
30.0	0.401	0.93	0.198	6358.5	0.362
40.0	0.533	1.26	0.394	7429.1	0.423
50.0	0.231	1.17	0.611	7583.1	0.432
60.0	-0.301	0.84	0.789	7227.8	0.412
70.0	-0.935	0.37	0.896	6522.8	0.372
80.0	-1.596	-0.15	0.916	5556.0	0.317

Longitudinal Strength



X m	FR #	BEND tm	SHEAR t	WD t/m	BD t/m
64.950	90.94	7569	67	155.99	161.82
86.600	118.00	7167	-105	155.59	165.46
108.250	145.06	2646	-254	149.53	146.52
129.899	173.16	-27	22	33.29	47.44
151.549	209.25	0	0	0.00	0.00

	X	Frame
Shear force (min)	106.600 m	143.00
Shear force (max)	9.644 m	16.07
Sagging moment	124.800 m	165.75
Hogging moment	74.322 m	102.65