

Stability Calculation - prototyp

Loadcase - Loadcase1

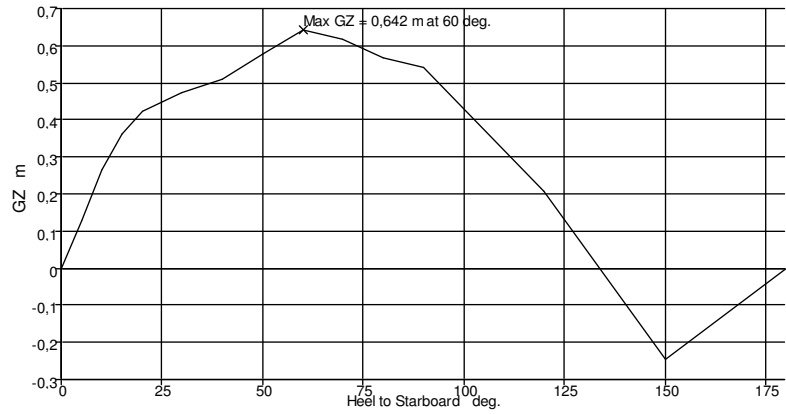
Damage Case - Intact

Free to Trim

Relative Density (specific gravity) = 1.025; (Density = 1,0252 tonne/m^3)

Fluid analysis method: Use corrected VCG

Item Name	Quantity	Weight tonne	Long.Ar m m	Vert.Ar m m	Trans.Ar m m	FS Mom. tonne.m	FSM Type
hull	1	30,00	11,000	2,000	0,000	0,000	
	Total Weight =	30,00	LCG=11,000	VCG=2,000	TCG=0,000	0	
				FS corr.=0			
hydr				VCG fluid=2			



Heel to Starboard degrees	0,0	5,0	10,0	15,0	20,0	30,0
Displacementtonne	30,00	30,00	30,00	30,00	30,00	30,00
Draft at FP m	0.962	0.965	0.973	0.980	0.982	0.956
Draft at AP m	0.432	0.408	0.334	0.233	0.104	-0.252
WL Length m	18,815	18,760	20,370	20,372	20,368	20,330
Immersed Depth m	0,828	0,823	0,805	0,808	0,844	0,907

WL Beam m	4,581	4,734	4,505	4,292	4,106	3,904
Wetted Area m^2	71,774	74,302	74,667	73,277	71,721	69,625
Waterpl. Area m^2	65,404	67,612	66,455	63,884	61,533	58,882
Prismatic Coeff.	0,657	0,658	0,608	0,612	0,613	0,609
Block Coeff.	0,410	0,401	0,396	0,414	0,414	0,407
LCB from Amidsh. (+ve fwd) m	-0,019	-0,018	-0,012	-0,004	0,005	0,026
VCB from DWL m	-0,278	-0,278	-0,278	-0,285	-0,296	-0,317
GZ m	0,000	0,127	0,264	0,361	0,422	0,475
LCF from Amidsh. (+ve fwd) m	-0,928	-1,004	-0,954	-0,817	-0,674	-0,398
TCF to zero pt. m	0,000	0,366	0,609	0,809	1,008	1,410
Max deck inclination deg	1,4	5,2	10,1	15,1	20,1	30,1
Trim angle (+ve by stern) deg	-1,4	-1,5	-1,7	-2,0	-2,3	-3,2

Heel to Starboard degrees	40,0	50,0	60,0	70,0	80,0	90,0
Displacementtonne	30,00	30,00	30,00	30,00	30,00	30,00
Draft at FP m	0,840	0,553	-0,043	-1,314	-5,262	N/A
Draft at AP m	-0,779	-1,567	-2,853	-5,369	-12,871	N/A
WL Length m	20,200	19,692	19,654	19,304	18,886	19,089
Immersed Depth m	1,043	1,124	1,112	1,023	0,895	1,014
WL Beam m	4,039	4,140	3,813	3,888	4,275	4,557
Wetted Area m^2	70,696	71,618	71,016	71,943	73,427	73,083
Waterpl. Area m^2	60,488	62,187	60,225	57,478	57,443	56,491
Prismatic Coeff.	0,597	0,593	0,584	0,599	0,599	0,569
Block Coeff.	0,344	0,319	0,351	0,381	0,405	0,332
LCB from Amidsh. (+ve fwd) m	0,047	0,063	0,075	0,079	0,080	0,079
VCB from DWL m	-0,321	-0,314	-0,309	-0,317	-0,325	-0,327
GZ m	0,510	0,578	0,642	0,619	0,565	0,543
LCF from Amidsh. (+ve fwd) m	-0,067	0,166	-0,023	-0,232	-0,411	-0,485
TCF to zero pt. m	1,835	2,155	2,359	2,434	2,499	2,489
Max deck inclination deg	40,1	50,1	60,1	70,0	80,0	90,0
Trim angle (+ve by stern) deg	-4,2	-5,5	-7,3	-10,5	-19,2	-90,0

Heel to Starboard degrees	120,0	150,0	180,0
Displacementtonne	30,00	30,00	30,00
Draft at FP m	-5,195	-3,640	-3,038
Draft at AP m	-7,450	-5,222	-5,084
WL Length m	19,258	17,003	15,751
Immersed Depth m	1,096	0,737	1,112
WL Beam m	4,119	4,854	4,936
Wetted Area m^2	63,087	62,298	66,387
Waterpl. Area m^2	45,214	48,518	57,877
Prismatic Coeff.	0,475	0,423	0,386
Block Coeff.	0,337	0,481	0,339
LCB from Amidsh. (+ve fwd) m	0,075	0,102	0,170
VCB from DWL m	-0,403	-0,430	-0,384
GZ m	0,208	-0,247	0,000

LCF from Amidsh. (+ve fwd) m	0,126	1,130	2,588
TCF to zero pt. m	1,828	0,753	0,000
Max deck inclination deg	120,0	149,8	174,7
Trim angle (+ve by stern) deg	-5,9	-4,1	-5,3

