

1300 TEU Containership

Stability Analysis

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Model Name: D:\MyWorks\New Orca3Dv1.1.0-Training\1300 TEU Containership\1300 TEU Containership-2,09.10.2010.3dm



Condition Summary

Load Condition Parameters

Condition	Weight / Sinkage	LCG / Trim	TCG / Heel	VCG (m)
Load Case 1	7,000 m	0,000 deg	0,000 deg	9
Load Case 2	8,000 m	0,000 deg	0,000 deg	9
Load Case 3	9,000 m	0,000 deg	0,000 deg	9
Load Case 4	10,000 m	0,000 deg	0,000 deg	9

Resulting Model Attitude and Hydrostatic Properties

Condition	Sinkage (m)	Heel(deg)	Trim(deg)	Ax(m^2)
Load Case 1	7,000	0,000	0,000	167,04
Load Case 2	8,000	0,000	0,000	191,42
Load Case 3	9,000	0,000	0,000	215,80
Load Case 4	10,000	0,000	0,000	240,19

Condition	Displacement (tonne-f)	LCB(m)	TCB(m)	VCB(m)	Wet Area (m^2)
Load Case 1	17616,630	80,035	0,000	3,639	4306,370
Load Case 2	20363,798	80,451	0,000	4,160	4648,198
Load Case 3	23215,382	81,004	0,000	4,694	5008,629
Load Case 4	26188,831	81,660	0,000	5,240	5387,207

Condition	Awp(m^2)	LCF(m)	TCF(m)	VCF(m)
Load Case 1	2636,034	82,218	0,000	7,000
Load Case 2	2725,209	84,012	0,000	8,000
Load Case 3	2836,297	85,836	0,000	9,000
Load Case 4	2962,053	87,677	0,000	10,000

Condition	BMt(m)	BMI(m)	GMt(m)	GMI(m)
Load Case 1	6,117	171,581	0,76	166,22
Load Case 2	5,530	162,135	0,69	157,30
Load Case 3	5,072	159,659	0,77	155,35

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Load Case 4	4,704	160,792	0,94	157,03		
Condition	Cb	Cp	Cwp	Cx	Cws	Cvp
Load Case 1	0,691	0,708	0,744	0,977	2,726	0,929
Load Case 2	0,682	0,696	0,750	0,979	2,703	0,909
Load Case 3	0,661	0,673	0,747	0,982	2,667	0,885
Load Case 4	0,656	0,667	0,762	0,984	2,670	0,861

Notes

1. Locations such as the center of buoyancy and center of flotation are measured from the origin in the Rhinoceros world coordinate system.
2. The orientation of the model for an Orca3D hydrostatics solution is defined in terms of “sinkage,” “trim,” and “heel.” The sinkage value represents the depth of the body origin (i.e. the Rhino world origin) below the resultant flotation plane, and is sometimes referred to as "origin depth." Heel and trim represent angular rotations about the Rhino longitudinal and transverse axes, respectively, and are taken in that order. For a more detailed description of these terms see the Orca3D documentation.
3. Hull form coefficients are non-dimensionalized by the waterline length.
4. Calculation of C_p and C_x use Orca sections to determine A_x . If no Orca sections are defined, these values will be reported as zero.

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Stability Analysis

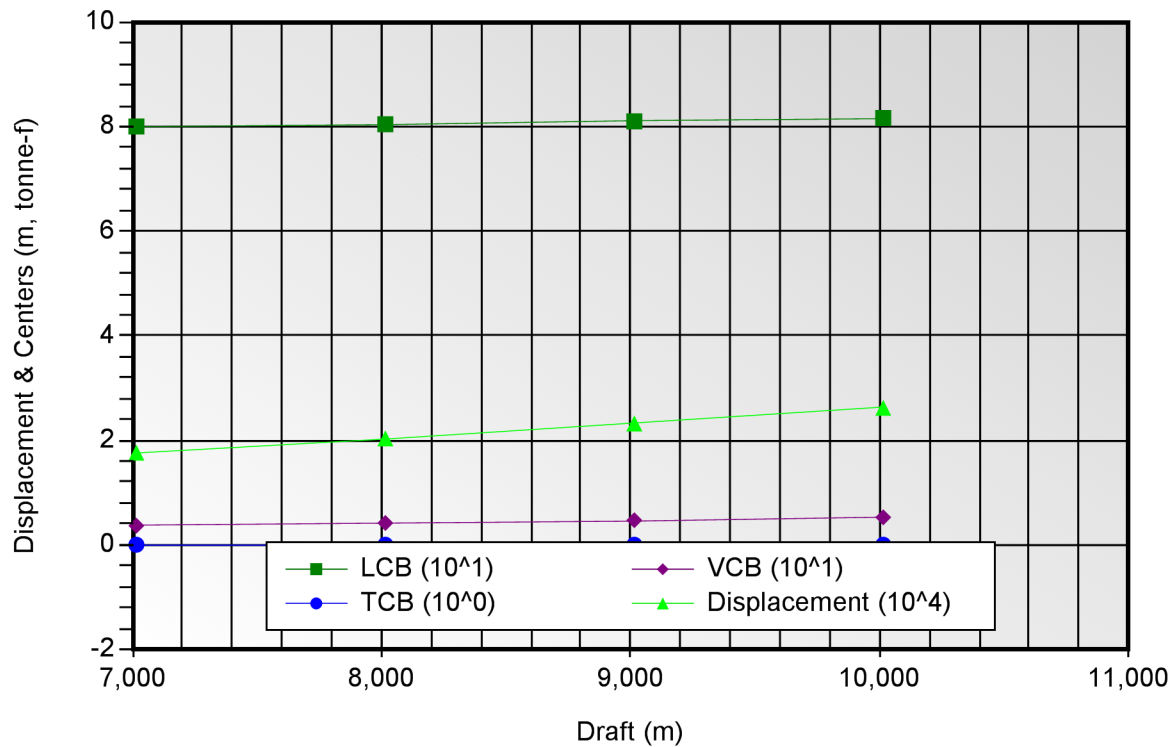
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Volumetric Properties



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Stability Analysis

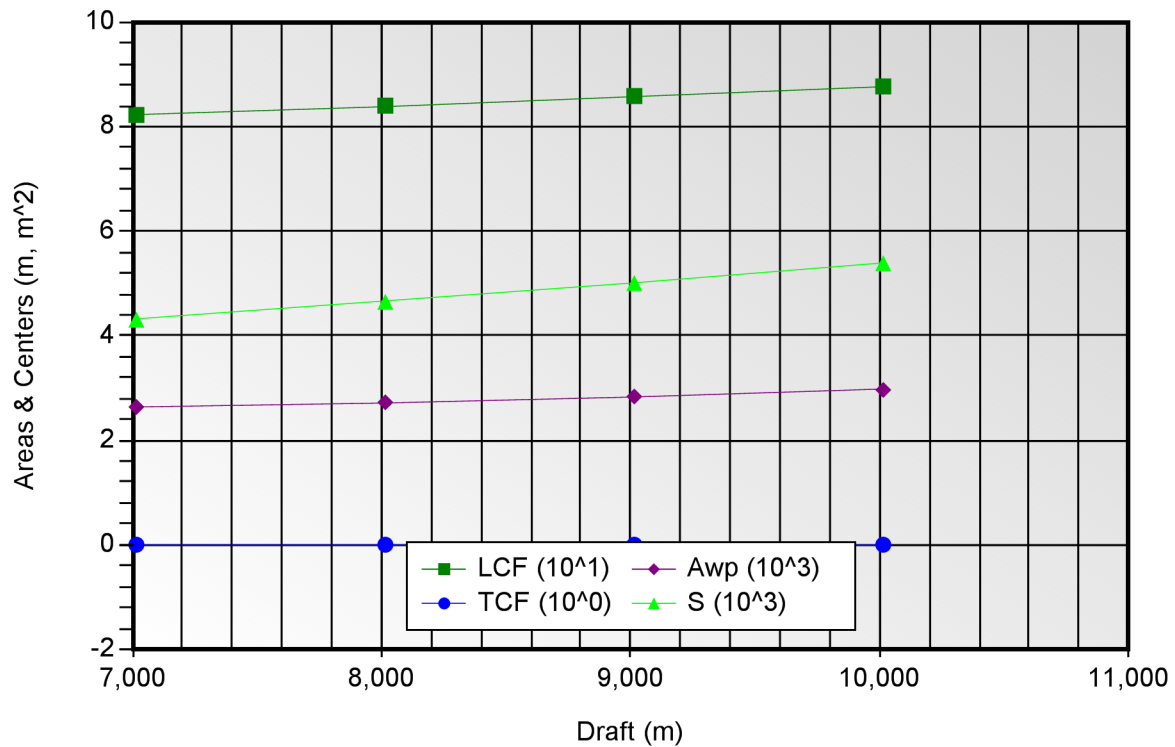
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Area Properties



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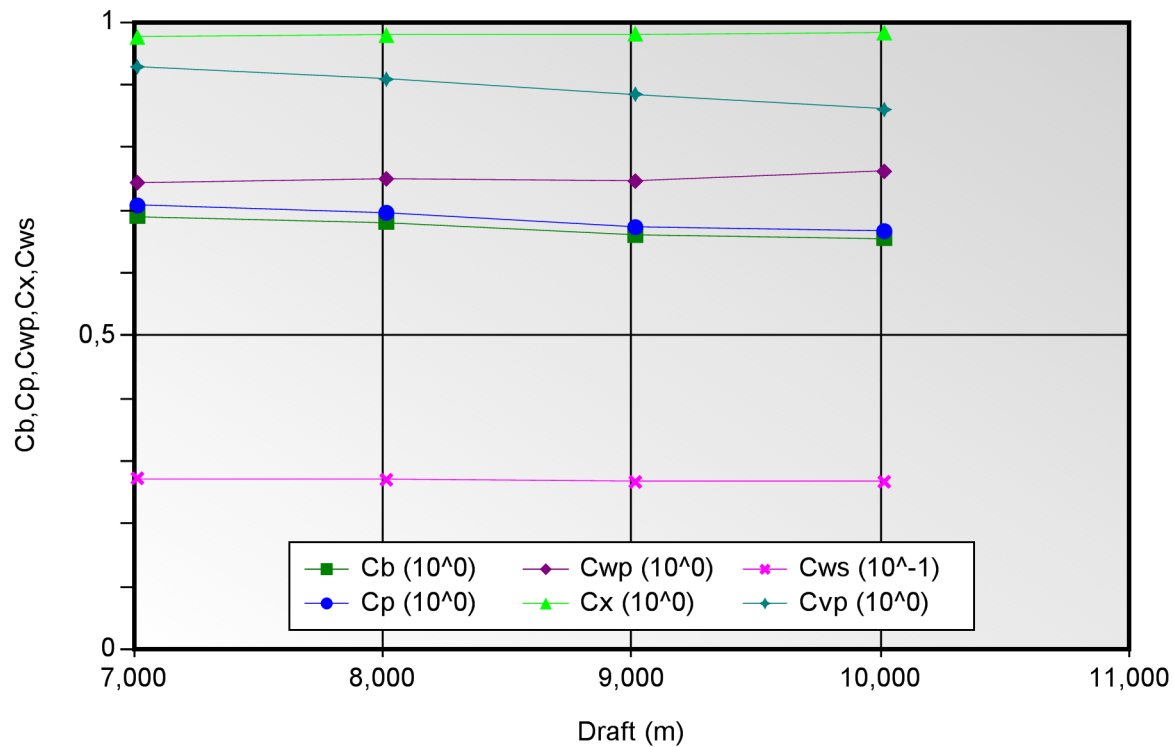
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Hull Form Coefficients



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Object Type	Name	ID
surface	deck	{20c6e382-f047-4b1f-8d11-cef853e8b2ed}
surface	hull-sb	{eb0ff810-0eb5-4e5c-8130-05c040e01bcc}
surface	hull-ps	{b8817800-5b32-4611-80de-d4605eba51f1}
surface	transom	{eeef3312-4db7-4f64-a780-da353f16547d}

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Condition Name=Load Case 1,Model Sinkage=7,00,Model Trim=0,00,Model Heel=0,00

Analysis Type

FreeFloatEquilibrium

Surface Meshing Parameters

Density	1	Minimum edge length	0,0001 m
Maximum angle	0	Maximum edge length	0 m
Maximum aspect ratio	0	Max distance, edge to surf.	0 m
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Model Sinkage	7,000 m
Model Trim	0,000 deg
Model Heel	0,000 deg
VCG	9 m
Fluid Type	Seawater
Fluid Density	1025,900 kg/m^3
Mirror Geometry	False

Resultant Model Attitude

Heel Angle	0,000 deg	Sinkage	7,000 m
Trim Angle	0,000 deg		

Overall Dimensions

Length Overall, LOA	165,252 m	Loa / Boa	6,774
Beam Overall, Boa	24,396 m	Boa / D	1,333
Depth Overall, D	18,303 m		

Waterline Dimensions

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Waterline Length, Lwl	145,295 m	Lwl / Bwl	5,959
Waterline Beam, Bwl	24,384 m	Bwl / T	3,476
Navigational Draft, T	7,015 m	D / T	2,609

Volumetric Values

Displacement	17616,630 tonne-f	Displ-Length Ratio	160,068
Volume	17171,878 m^3		
LCB	80,035 m	FB/Lwl 0,505	AB/Lwl 0,495
TCB	0,000 m	TCB / Bwl	0,000
VCB	3,639 m		
Wetted Surface Area	4306,370 m^2		
Moment To Trim	201538,535 kgf-m/cm		

Waterplane Values

Waterplane Area, Awp	2636,034 m^2		
LCF	82,218 m	FF/Lwl 0,520	AF/Lwl 0,480
TCF	0,000 m	TCF / Lwl	0,000
Weight To Immerse	27,043 tonne-f/cm		

Sectional Parameters

Ax	167,037 m^2		
Ax Location	78,377 m	Ax Location / Lwl	0,494

Hull Form Coefficients

Cb	0,691	Cx	0,977
Cp	0,708	Cwp	0,744
Cvp	0,929	Cws	2,726

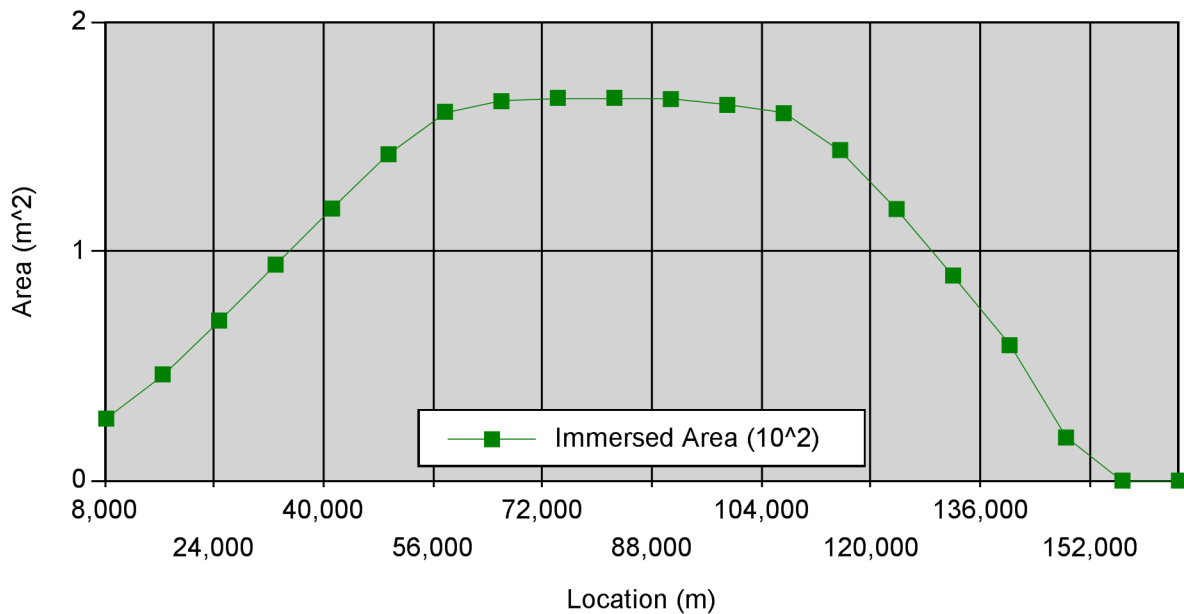
Static Stability Parameters

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I(transverse)	105043,682 m^4	I(longitudinal)	2946376,218 m^4
BMt	6,117 m	BMI	171,581 m
GMt	0,76 m	GMI	166,22 m
Mt	2,756 m	MI	168,221 m

Station Data



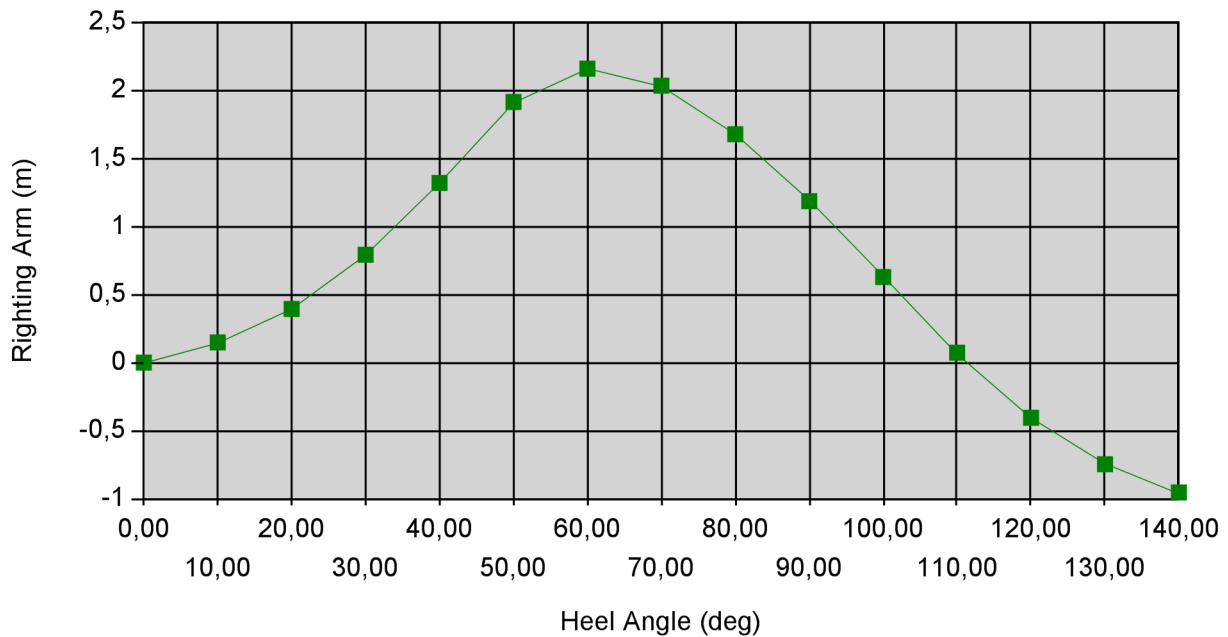
Location (m)	Immersed Area (m^2)	Immersed Girth (m)
8,250	27,022	17,845
16,500	46,338	19,287
24,750	69,866	21,715
33,000	94,212	24,874
41,250	118,694	28,288
49,500	142,413	31,671
57,750	160,956	34,397
66,000	165,547	35,426
74,250	166,974	35,859

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Location (m)	Immersed Area (m ²)	Immersed Girth (m)
82,500	166,974	35,859
90,750	166,468	35,694
99,000	163,950	35,038
107,250	160,295	34,263
115,500	144,220	32,054
123,750	118,501	28,727
132,000	89,488	25,067
140,250	59,072	21,669
148,500	18,791	17,968
156,750	0,000	0,000
165,000	0,000	0,000

Stability Curve



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Heel(deg)	Trim(deg)	Righting Arm (m)	Righting Moment (kgf-m)
0,000	0,000	0,000	0,0
10,000	-0,037	0,149	2616352,2
20,000	-0,139	0,394	6942846,6
30,000	-0,282	0,792	13954236,6
40,000	-0,471	1,320	23257633,3
50,000	-0,741	1,915	33728294,7
60,000	-1,034	2,160	38053089,8
70,000	-1,300	2,034	35836873,7
80,000	-1,543	1,678	29564794,2
90,000	-1,750	1,185	20884210,9
100,000	-1,890	0,629	11074451,6
110,000	-1,954	0,073	1280858,0
120,000	-1,953	-0,406	-7144261,6
130,000	-1,899	-0,747	-13166002,7
140,000	-1,800	-0,954	-16810878,9

No Points of Interest to Report

Model Name: D:\MyWorks\New Orca3Dv1.1.0-Training\1300 TEU Containership\1300 TEU Containership-2,09.10.2010.3dm



Condition Name=Load Case 2,Model Sinkage=8,00,Model Trim=0,00,Model Heel=0,00

Analysis Type

FreeFloatEquilibrium

Surface Meshing Parameters

Density	1	Minimum edge length	0,0001 m
Maximum angle	0	Maximum edge length	0 m
Maximum aspect ratio	0	Max distance, edge to surf.	0 m
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Model Sinkage	8,000 m
Model Trim	0,000 deg
Model Heel	0,000 deg
VCG	9 m
Fluid Type	Seawater
Fluid Density	1025,900 kg/m^3
Mirror Geometry	False

Resultant Model Attitude

Heel Angle	0,000 deg	Sinkage	8,000 m
Trim Angle	0,000 deg		

Overall Dimensions

Length Overall, LOA	165,252 m	Loa / Boa	6,774
Beam Overall, Boa	24,396 m	Boa / D	1,333
Depth Overall, D	18,303 m		

Waterline Dimensions

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Stability Analysis

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Model Name: D:\MyWorks\New Orca3Dv1.1.0-Training\1300 TEU Containership\1300 TEU Containership-2,09.10.2010.3dm



Waterline Length, Lwl	149,006 m	Lwl / Bwl	6,111
Waterline Beam, Bwl	24,384 m	Bwl / T	3,042
Navigational Draft, T	8,015 m	D / T	2,284

Volumetric Values

Displacement	20363,798 tonne-f	Displ-Length Ratio	171,545
Volume	19849,691 m^3		
LCB	80,451 m	FB/Lwl 0,491	AB/Lwl 0,509
TCB	0,000 m	TCB / Bwl	0,000
VCB	4,160 m		
Wetted Surface Area	4648,198 m^2		
Moment To Trim	214966,532 kgf-m/cm		

Waterplane Values

Waterplane Area, Awp	2725,209 m^2		
LCF	84,012 m	FF/Lwl 0,515	AF/Lwl 0,485
TCF	0,000 m	TCF / Lwl	0,000
Weight To Immerse	27,958 tonne-f/cm		

Sectional Parameters

Ax	191,419 m^2		
Ax Location	78,346 m	Ax Location / Lwl	0,477

Hull Form Coefficients

Cb	0,682	Cx	0,979
Cp	0,696	Cwp	0,750
Cvp	0,909	Cws	2,703

Static Stability Parameters

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Stability Analysis

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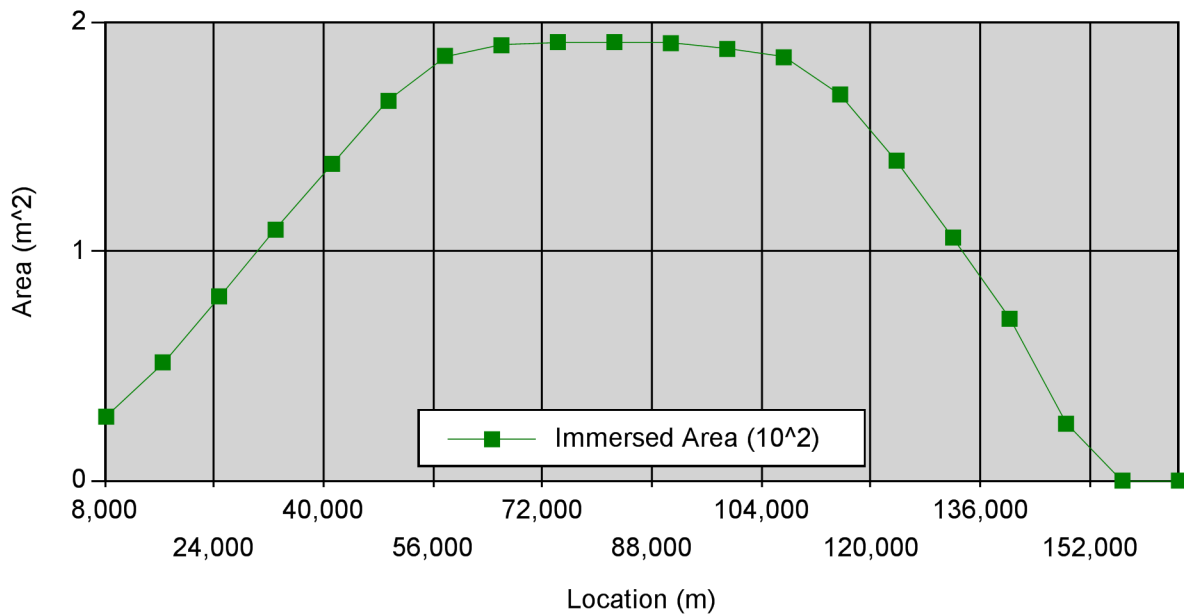
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I(transverse)	109767,819 m ⁴	I(longitudinal)	3218331,160 m ⁴
BMt	5,530 m	BMI	162,135 m
GMt	0,69 m	GMI	157,30 m
Mt	1,690 m	MI	158,295 m

Station Data



Location (m)	Immersed Area (m ²)	Immersed Girth (m)
8,250	27,901	19,901
16,500	51,610	21,330
24,750	80,404	23,716
33,000	109,450	26,889
41,250	138,184	30,339
49,500	165,666	33,744
57,750	185,340	36,397
66,000	189,931	37,426
74,250	191,358	37,859

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Stability Analysis

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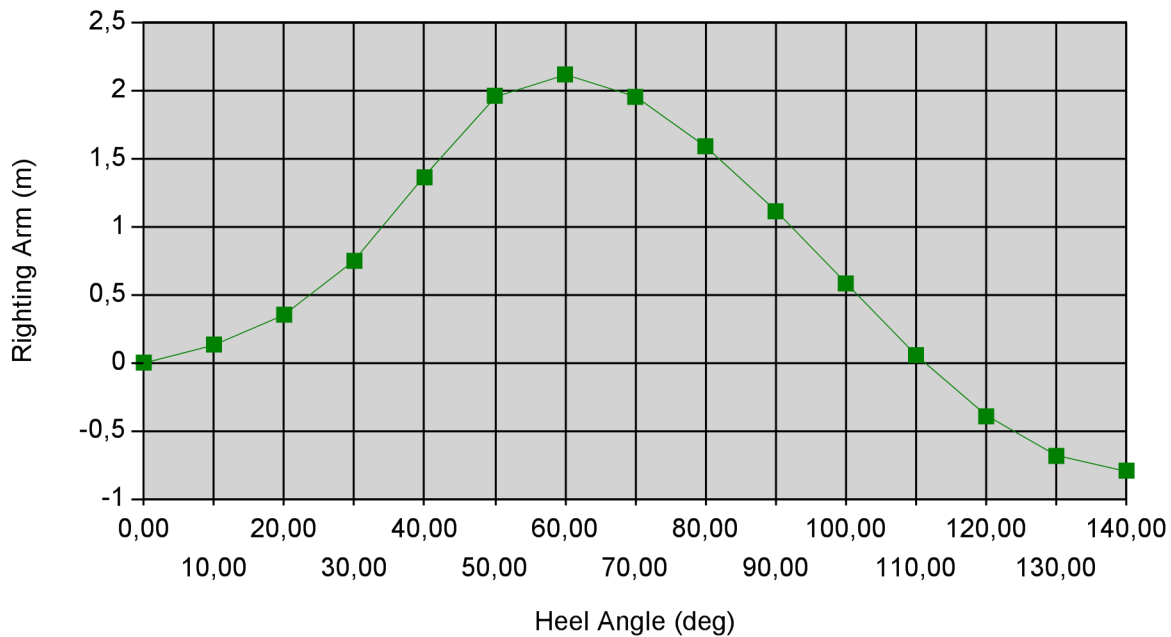
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Location (m)	Immersed Area (m^2)	Immersed Girth (m)
82,500	191,356	37,859
90,750	190,852	37,694
99,000	188,335	37,038
107,250	184,679	36,263
115,500	168,437	34,115
123,750	139,616	31,216
132,000	106,013	27,797
140,250	70,575	24,611
148,500	24,804	21,406
156,750	0,000	0,000
165,000	0,000	0,000

Stability Curve



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Stability Analysis

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Heel(deg)	Trim(deg)	Righting Arm (m)	Righting Moment (kgf-m)
0,000	0,000	0,000	0,0
10,000	-0,040	0,133	2715002,7
20,000	-0,151	0,352	7164449,7
30,000	-0,320	0,748	15223086,0
40,000	-0,544	1,361	27722152,1
50,000	-0,816	1,961	39925605,2
60,000	-1,041	2,117	43116171,2
70,000	-1,246	1,952	39749019,6
80,000	-1,436	1,590	32374297,9
90,000	-1,603	1,112	22641834,5
100,000	-1,736	0,581	11830800,3
110,000	-1,825	0,055	1128896,0
120,000	-1,859	-0,394	-8030352,5
130,000	-1,848	-0,686	-13972357,3
140,000	-1,810	-0,794	-16164330,8

No Points of Interest to Report

Model Name: D:\MyWorks\New Orca3Dv1.1.0-Training\1300 TEU Containership\1300 TEU Containership-2,09.10.2010.3dm



Condition Name=Load Case 3,Model Sinkage=9,00,Model Trim=0,00,Model Heel=0,00

Analysis Type

FreeFloatEquilibrium

Surface Meshing Parameters

Density	1	Minimum edge length	0,0001 m
Maximum angle	0	Maximum edge length	0 m
Maximum aspect ratio	0	Max distance, edge to surf.	0 m
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Model Sinkage	9,000 m
Model Trim	0,000 deg
Model Heel	0,000 deg
VCG	9 m
Fluid Type	Seawater
Fluid Density	1025,900 kg/m^3
Mirror Geometry	False

Resultant Model Attitude

Heel Angle	0,000 deg	Sinkage	9,000 m
Trim Angle	0,000 deg		

Overall Dimensions

Length Overall, LOA	165,252 m	Loa / Boa	6,774
Beam Overall, Boa	24,396 m	Boa / D	1,333
Depth Overall, D	18,303 m		

Waterline Dimensions

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Waterline Length, Lwl	155,816 m	Lwl / Bwl	6,390
Waterline Beam, Bwl	24,384 m	Bwl / T	2,705
Navigational Draft, T	9,015 m	D / T	2,030

Volumetric Values

Displacement	23215,382 tonne-f	Displ-Length Ratio	171,029
Volume	22629,283 m^3		
LCB	81,004 m	FB/Lwl 0,478	AB/Lwl 0,522
TCB	0,000 m	TCB / Bwl	0,000
VCB	4,694 m		
Wetted Surface Area	5008,629 m^2		
Moment To Trim	231463,208 kgf-m/cm		

Waterplane Values

Waterplane Area, Awp	2836,297 m^2		
LCF	85,836 m	FF/Lwl 0,509	AF/Lwl 0,491
TCF	0,000 m	TCF / Lwl	0,000
Weight To Immerse	29,098 tonne-f/cm		

Sectional Parameters

Ax	215,803 m^2		
Ax Location	78,330 m	Ax Location / Lwl	0,461

Hull Form Coefficients

Cb	0,661	Cx	0,982
Cp	0,673	Cwp	0,747
Cvp	0,885	Cws	2,667

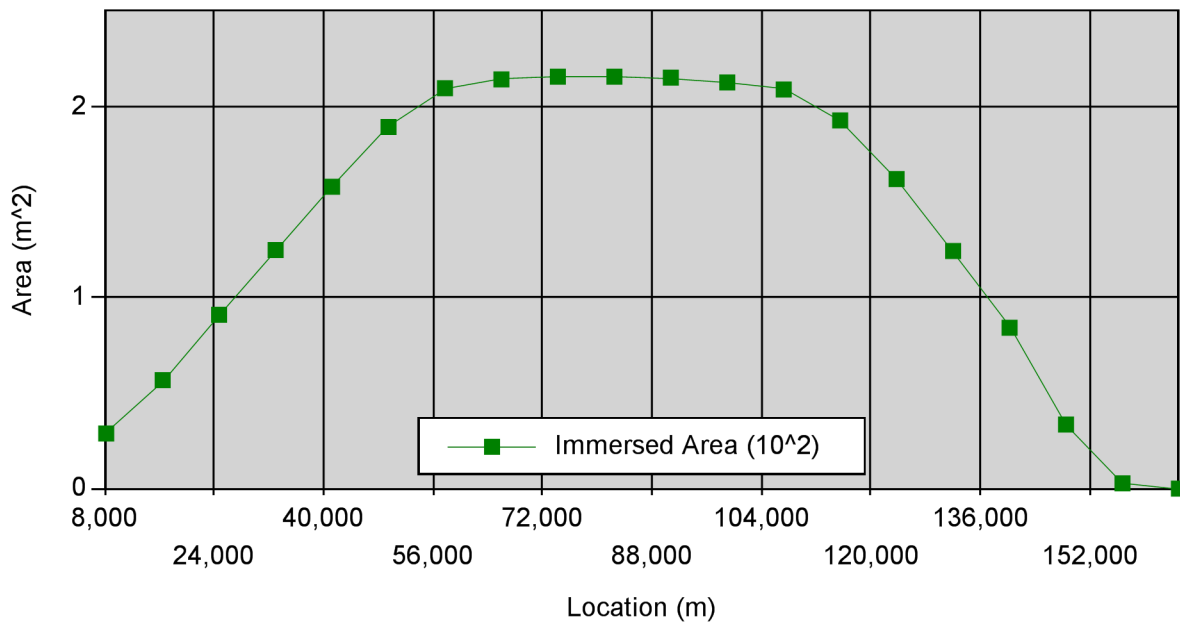
Static Stability Parameters

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I(transverse)	114773,516 m^4	I(longitudinal)	3612962,564 m^4
BMt	5,072 m	BMI	159,659 m
GMt	0,77 m	GMI	155,35 m
Mt	0,766 m	MI	155,352 m

Station Data



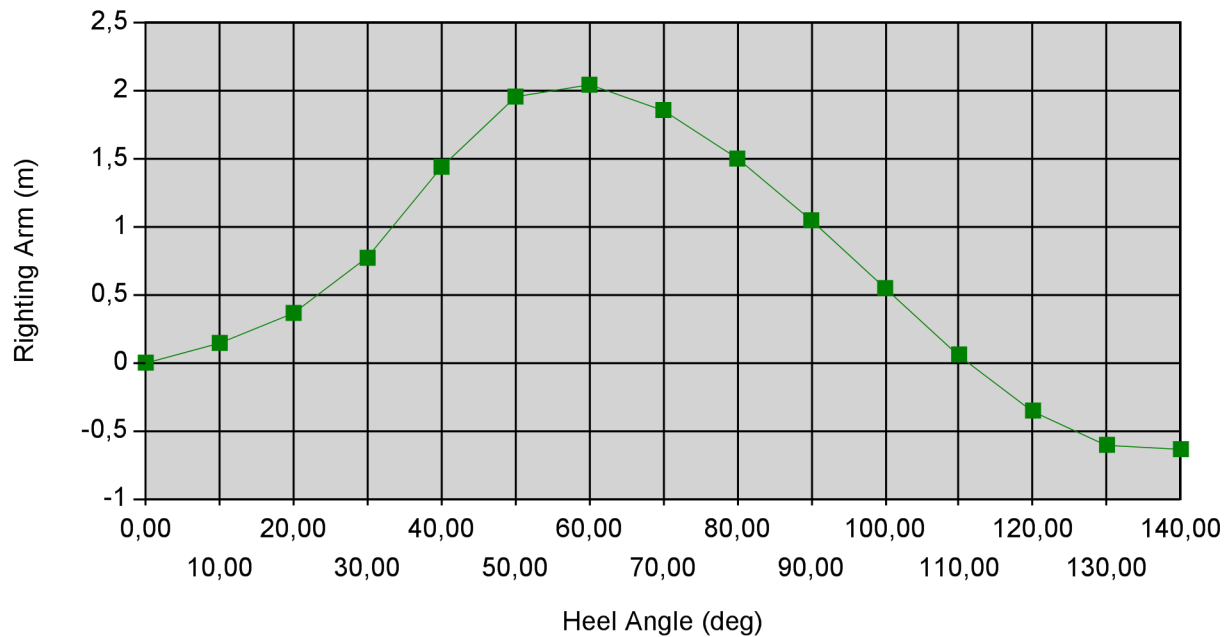
Location (m)	Immersed Area (m^2)	Immersed Girth (m)
8,250	28,860	21,922
16,500	56,807	23,342
24,750	91,030	25,725
33,000	124,954	28,910
41,250	158,120	32,388
49,500	189,421	35,796
57,750	209,724	38,397
66,000	214,317	39,426
74,250	215,742	39,859

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Location (m)	Immersed Area (m ²)	Immersed Girth (m)
82,500	215,739	39,859
90,750	215,236	39,694
99,000	212,719	39,038
107,250	209,063	38,263
115,500	192,822	36,116
123,750	162,116	33,562
132,000	124,428	30,521
140,250	84,303	27,611
148,500	33,553	24,773
156,750	2,779	5,198
165,000	0,000	0,000

Stability Curve



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Heel(deg)	Trim(deg)	Righting Arm (m)	Righting Moment (kgf-m)
0,000	0,000	0,000	0,0
10,000	-0,039	0,145	3366876,1
20,000	-0,155	0,365	8477040,7
30,000	-0,346	0,769	17860332,1
40,000	-0,598	1,439	33402023,0
50,000	-0,841	1,954	45364854,6
60,000	-1,012	2,042	47404848,0
70,000	-1,153	1,855	43075247,2
80,000	-1,289	1,499	34794370,5
90,000	-1,418	1,046	24272037,8
100,000	-1,538	0,547	12708976,8
110,000	-1,641	0,060	1393516,2
120,000	-1,713	-0,353	-8183427,8
130,000	-1,753	-0,605	-14041577,5
140,000	-1,788	-0,636	-14758938,0

No Points of Interest to Report

Model Name: D:\MyWorks\New Orca3Dv1.1.0-Training\1300 TEU Containership\1300 TEU Containership-2,09.10.2010.3dm



Condition Name=Load Case 4,Model Sinkage=10,00,Model Trim=0,00,Model Heel=0,00

Analysis Type

FreeFloatEquilibrium

Surface Meshing Parameters

Density	1	Minimum edge length	0,0001 m
Maximum angle	0	Maximum edge length	0 m
Maximum aspect ratio	0	Max distance, edge to surf.	0 m
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Model Sinkage	10,000 m
Model Trim	0,000 deg
Model Heel	0,000 deg
VCG	9 m
Fluid Type	Seawater
Fluid Density	1025,900 kg/m^3
Mirror Geometry	False

Resultant Model Attitude

Heel Angle	0,000 deg	Sinkage	10,000 m
Trim Angle	0,000 deg		

Overall Dimensions

Length Overall, LOA	165,252 m	Loa / Boa	6,774
Beam Overall, Boa	24,396 m	Boa / D	1,333
Depth Overall, D	18,303 m		

Waterline Dimensions

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Waterline Length, Lwl	159,430 m	Lwl / Bwl	6,538
Waterline Beam, Bwl	24,384 m	Bwl / T	2,435
Navigational Draft, T	10,015 m	D / T	1,828

Volumetric Values

Displacement	26188,831 tonne-f	Displ-Length Ratio	180,109
Volume	25527,664 m^3		
LCB	81,660 m	FB/Lwl 0,476	AB/Lwl 0,524
TCB	0,000 m	TCB / Bwl	0,000
VCB	5,240 m		
Wetted Surface Area	5387,207 m^2		
Moment To Trim	257947,937 kgf-m/cm		

Waterplane Values

Waterplane Area, Awp	2962,053 m^2		
LCF	87,677 m	FF/Lwl 0,513	AF/Lwl 0,487
TCF	0,000 m	TCF / Lwl	0,000
Weight To Immerse	30,388 tonne-f/cm		

Sectional Parameters

Ax	240,187 m^2		
Ax Location	78,346 m	Ax Location / Lwl	0,455

Hull Form Coefficients

Cb	0,656	Cx	0,984
Cp	0,667	Cwp	0,762
Cvp	0,861	Cws	2,670

Static Stability Parameters

1300 TEU Containership

Stability Analysis

Baharyan

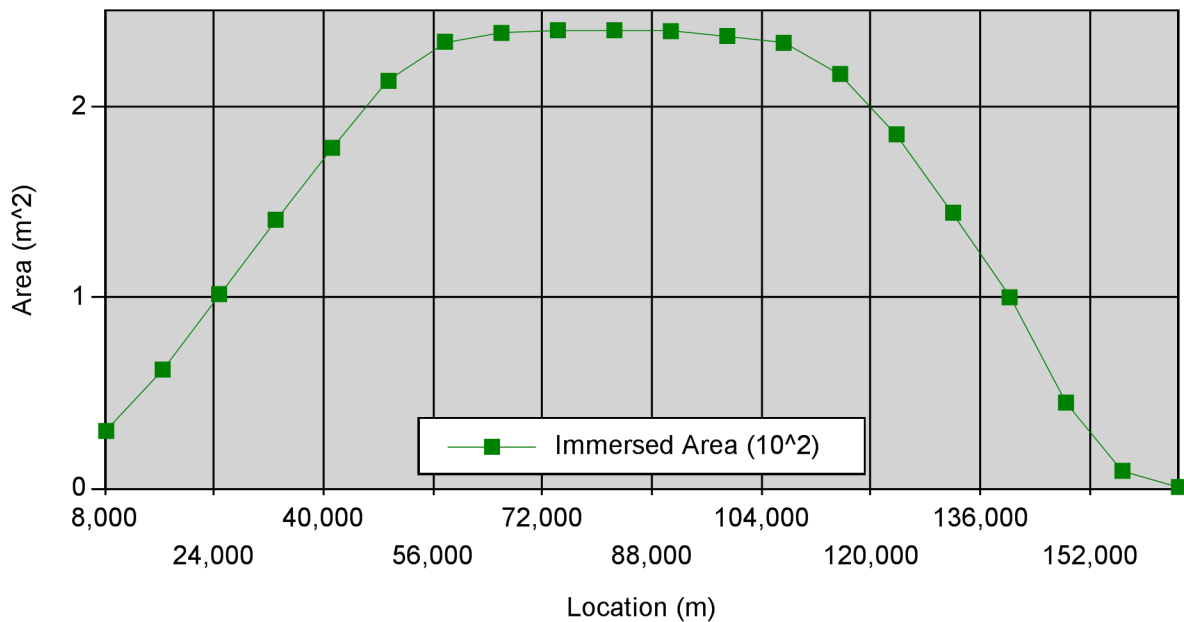
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I(transverse)	120092,119 m ⁴	I(longitudinal)	4104633,145 m ⁴
BMt	4,704 m	BMI	160,792 m
GMt	0,94 m	GMI	157,03 m
Mt	-0,056 m	MI	156,031 m

Station Data



Location (m)	Immersed Area (m ²)	Immersed Girth (m)
8,250	30,201	23,978
16,500	62,371	25,412
24,750	101,925	27,758
33,000	140,791	30,947
41,250	178,507	34,441
49,500	213,577	37,824
57,750	234,108	40,397
66,000	238,699	41,426
74,250	240,126	41,859

1300 TEU Containership

Stability Analysis

Baharyan

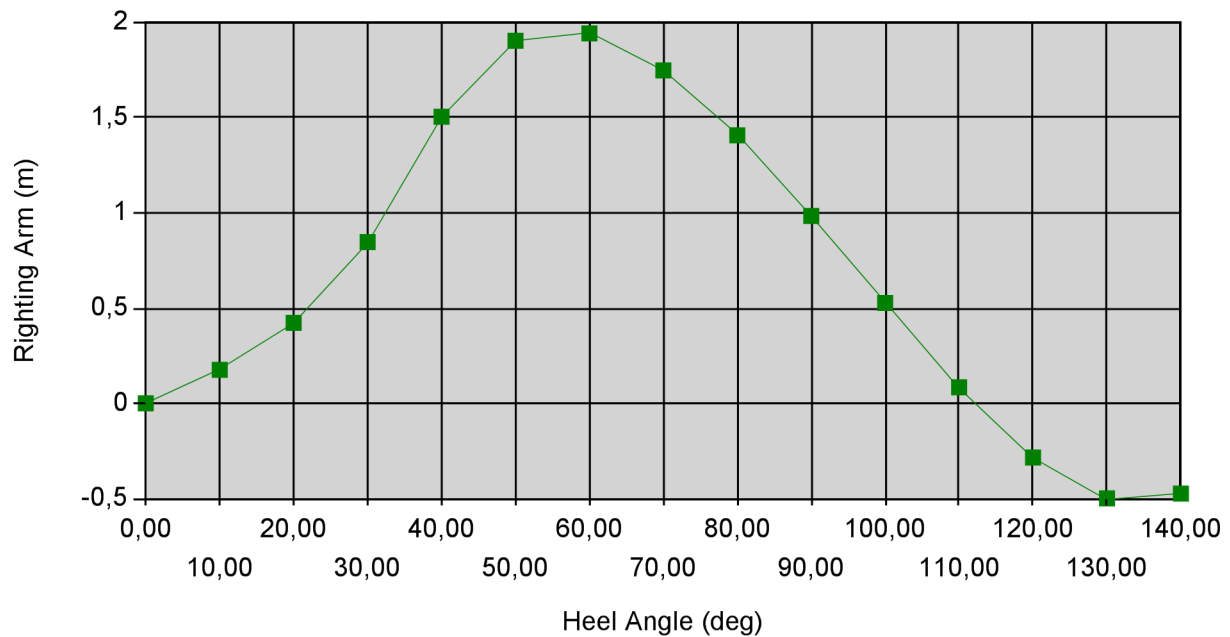
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Model Name: D:\MyWorks\New Orca3Dv1.1.0-Training\1300 TEU Containership\1300 TEU Containership-2,09.10.2010.3dm



Location (m)	Immersed Area (m^2)	Immersed Girth (m)
82,500	240,124	41,859
90,750	239,620	41,694
99,000	237,102	41,038
107,250	233,447	40,263
115,500	217,205	38,116
123,750	185,598	35,699
132,000	144,540	33,036
140,250	100,210	30,516
148,500	45,048	28,213
156,750	9,360	9,316
165,000	0,820	3,043

Stability Curve



1300 TEU Containership

Stability Analysis

Baharyan

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Heel(deg)	Trim(deg)	Righting Arm (m)	Righting Moment (kgf-m)
0,000	0,000	0,000	0,0
10,000	-0,039	0,176	4607928,1
20,000	-0,162	0,423	11069984,1
30,000	-0,371	0,847	22181407,3
40,000	-0,617	1,504	39396484,2
50,000	-0,812	1,904	49852311,7
60,000	-0,943	1,942	50859388,0
70,000	-1,037	1,748	45769816,1
80,000	-1,121	1,407	36850887,9
90,000	-1,217	0,984	25766602,6
100,000	-1,321	0,527	13797828,7
110,000	-1,428	0,085	2223971,8
120,000	-1,527	-0,284	-7425830,8
130,000	-1,617	-0,499	-13064422,0
140,000	-1,732	-0,473	-12391140,4

No Points of Interest to Report