

Analysis parameters

Bare-hull	[Calc] CRTS	Appendage	[Off]
Friction line	ITTC	Wind	[Calc] Taylor head wind
Technique	Prediction	Seas	[Calc] Modified Aertssen
Align to	[Off]	Channel	[Calc] Schlichting shallow
Align by	[Off]	Misc: Margin	[Calc] - 4% Hull drag only
Correlation allowance	0,0004	Water type	Standard Fresh
Roughness (mm)	[On] 0,2	Mass density	999,01 [kg/m3]
3D form factor	[On] 1,2414	Kinematic viscosity	1,1390e-06 [m2/s]
Speed dependent correction	[On]		

Prediction results

Vel [kts]	Fn	Rn	Cf	[Cform]	[Cw]	Cr	Ct
5,00	0,185	4,44e+7	0,002352	0,000543	0,000642	0,001185	0,003937
7,00	0,259	6,22e+7	0,002234	0,000461	0,001680	0,002141	0,004775
9,00	0,333	7,99e+7	0,002153	0,000327	0,003338	0,003665	0,006218
10,00	0,370	8,88e+7	0,002120	0,000246	0,005283	0,005529	0,008049
11,00	0,408	9,77e+7	0,002090	0,000182	0,008194	0,008376	0,010866
12,00	0,445	1,07e+8	0,002064	0,000146	0,011836	0,011981	0,014446
13,00	0,482	1,15e+8	0,002041	0,000120	0,014039	0,014159	0,016599
14,00	0,519	1,24e+8	0,002019	0,000096	0,014613	0,014709	0,017128
15,00	0,556	1,33e+8	0,001999	0,000072	0,014639	0,014711	0,017110
16,00	0,593	1,42e+8	0,001981	0,000051	0,013395	0,013446	0,015827

Vel [kts]	Rw/W	Rr/W	Rbare/W	Rw [kN]	Rr [kN]	Rbare [kN]	PEbare [kW]
5,00	0,00036	0,00066	0,00219	0	0	1	3
7,00	0,00183	0,00233	0,00520	1	1	3	10
9,00	0,00601	0,00660	0,01120	3	4	6	28
10,00	0,01175	0,01230	0,01790	6	7	10	50
11,00	0,02205	0,02254	0,02924	12	12	16	89
12,00	0,03790	0,03837	0,04626	20	21	25	154
13,00	0,05276	0,05321	0,06239	28	29	34	224
14,00	0,06370	0,06411	0,07466	34	34	40	289
15,00	0,07325	0,07361	0,08562	39	40	46	355
16,00	0,07626	0,07655	0,09011	41	41	48	399

Vel [kts]	Rapp [kN]	Rwind [kN]	Rseas [kN]	Rchan [kN]	Rmisc [kN]	Rtotal [kN]	PEtotal [kW]
5,00	0	2	0	0	0	3	9
7,00	0	2	2	0	0	8	28
9,00	0	3	7	0	0	16	74
10,00	0	3	12	0	0	25	130
11,00	0	3	21	0	1	41	231
12,00	0	4	35	0	1	64	398
13,00	0	4	47	1	1	87	583
14,00	0	4	57	2	2	105	757
15,00	0	4	66	4	2	122	942
16,00	0	5	69	6	2	131	1076

Hull data

General:			Ct-based:		
Length between PP		19,912 [m]	Max section area		4,646 [m2]
WL bow pt aft FP		0,000 [m]	Waterplane area		69,861 [m2]
Length on WL		19,662 [m]	Trim by stern		0,150 [m]
Max beam on WL		5,128 [m]	LCB aft of FP		11,385 [m]
Max molded draft		1,250 [m]	Bulb ext fwd FP		0,067 [m]
Displacement bare		54,85 [t]	Bulb area at FP		0,018 [m2]
Wetted surface		90,488 [m2]	Bulb ctr above BL		0,899 [m]
Chine type		Round bilge	Transom area		1,140 [m2]
Parameters:			Transom beam		4,260 [m]
Lwl/B		3,8342	Transom draft		0,290 [m]
B/T		4,1024	Half ent angle		14,1 [deg]
Cb		0,4356	Bow shape	Buttock flow [V-shape]	
Cws		2,7541	Stern shape	WL flow [U-shape]	
			Cx		0,7248
			Cw		0,6929
			LCB/Lpp		0,5718
			At/Ax		0,2454
			Bt/Bx		0,8307
			Tt/T		0,2320

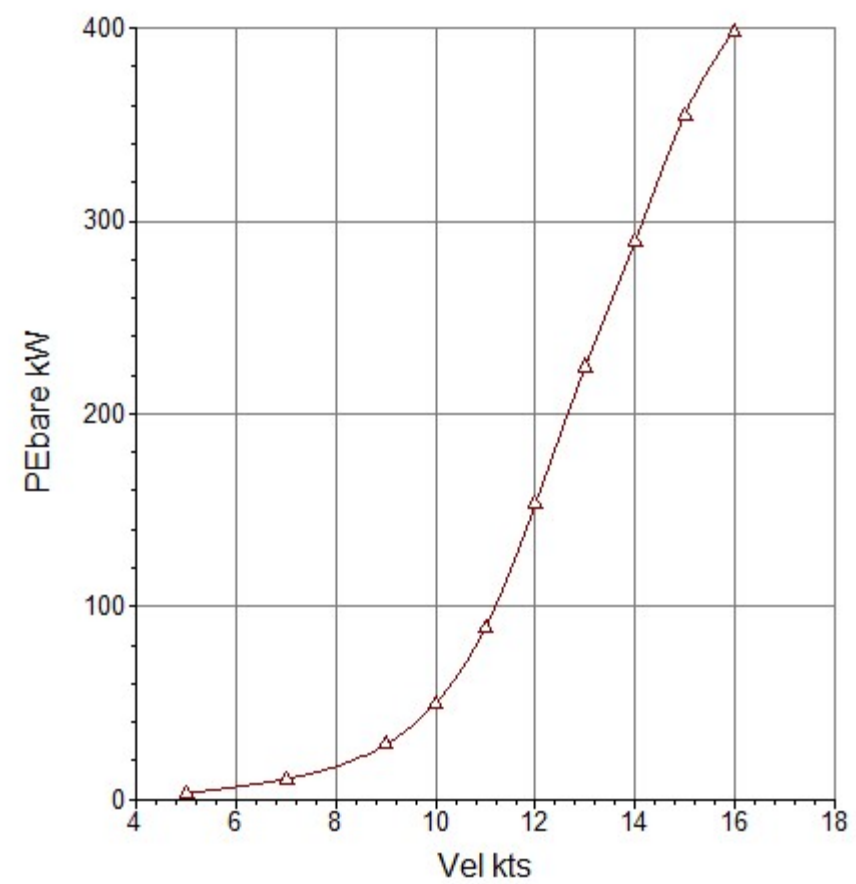
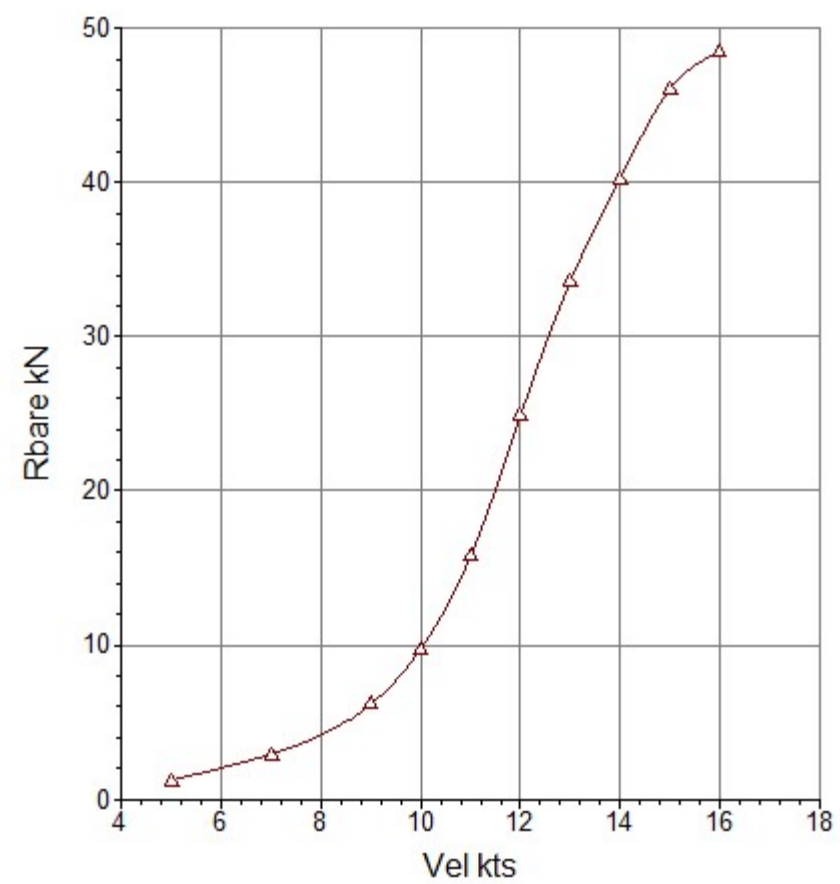
Parameters:	CRTS	
Fn(Lwl)	0,178...0,684	0,19
Fn-high	0,178...0,684	0,59
Cvol(Lwl)	4,85...11,27	5,17
Bwl/T	2,2...5,2	4,10
Cp(Lwl)	0,52...0,7	0,60
le	2...20	14,1
Cx	0,64...1	0,72
At/Ax	0...0,4	0,25
Bt/Bwl	0...0,85	0,83
Tt/T	0...0,42	0,23
Abulb/Ax	0...0,1	0,00

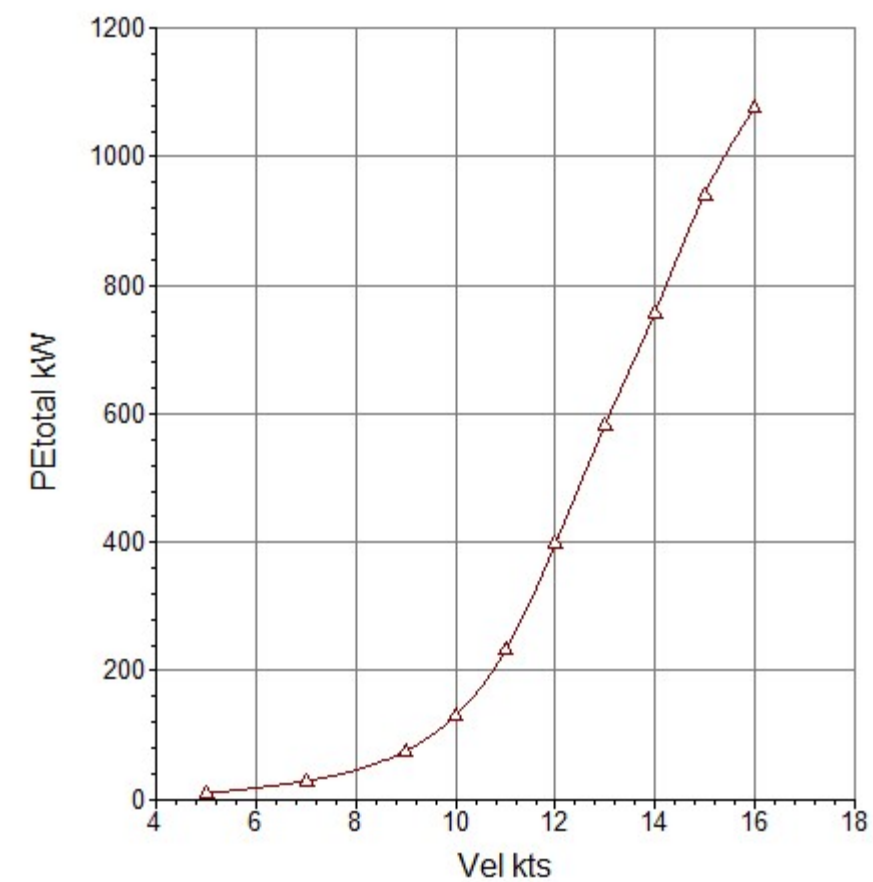
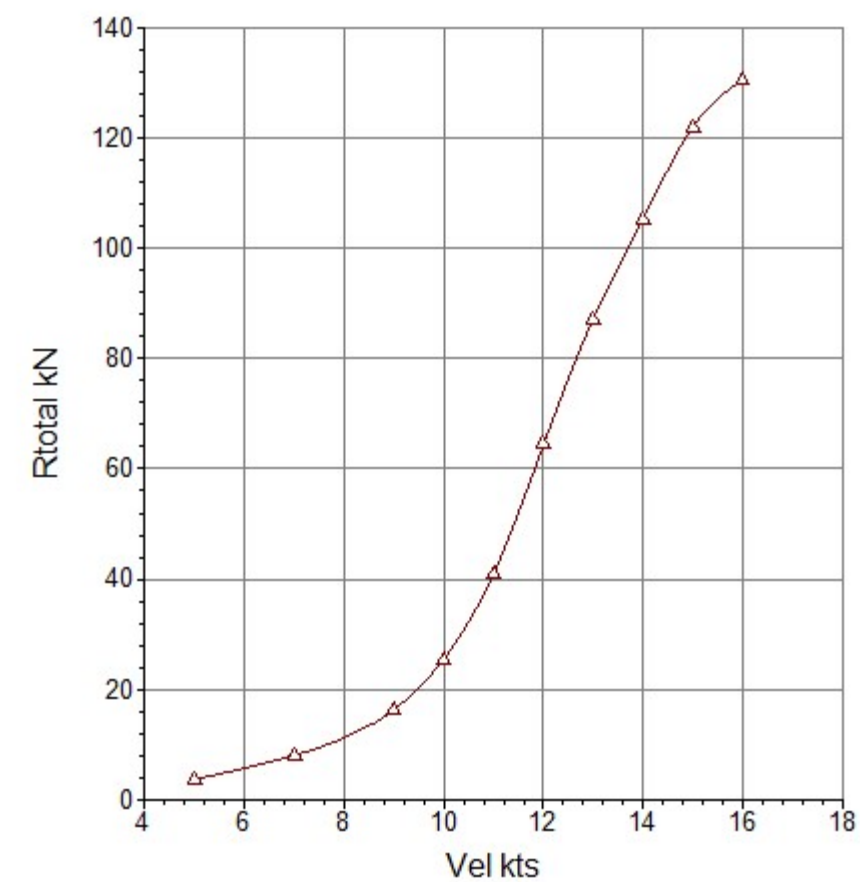
Appendages

Wetted areas (ex. thruster):		[Drag coefficient]
Rudders	0,000 [m2]	[0,000]
Shaft brackets	0,000 [m2]	[0,000]
Skeg	0,000 [m2]	[0,000]
Strut bossing	0,000 [m2]	[0,000]
Hull bossing	0,000 [m2]	[0,000]
Exposed shafts	0,000 [m2]	[0,000]
Stablizer fins	0,000 [m2]	[0,000]
Dome	0,000 [m2]	[0,000]
Bilge keel	0,000 [m2]	[0,000]
Bow thruster diam	0,000 [m]	[0,000]

Environment data			
Wind: Wind speed Angle off bow Tran hull area VCE above WL Tran superst area VCE above WL Total Longl area VCE above WL Wind speed Arrangement		Seas:	
	26,05 [kts]	Sig. wave height	3,500 [m]
	0,000 [deg]	Modal wave period	7,7 [sec]
	9,150 [m2]		
	0,860 [m2]	Channel:	
	12,570 [m2]	Channel width	0,000 [m]
	3,090 [m]	Channel depth	10,000 [m]
	62,950 [m2]	Side slope	0,000 [deg]
	1,880 [m]	Wetted hull girth	7,630 [m]
	Free stream		
	Passenger		

Symbols and values	
Fn = Length Froude number	
Rn = Reynolds number	
Cf = Frictional resistance coefficient	
[Cform] = Viscous form resistance coefficient	
[Cw] = Wave-making resistance coefficient	
Cr = Residuary resistance coefficient	
Ct = Total bare-hull resistance coefficient	
Rw/W = Wave-making resistance-weight merit ratio	
Rr/W = Residuary resistance-weight merit ratio	
Rbare/W = Bare-hull resistance-weight merit ratio	
Rw = Wave-making resistance component	
Rr = Residuary resistance component	
Rbare = Bare-hull resistance	
PEbare = Bare-hull effective power	
Rapp = Additional appendage resistance	
Rwind = Additional wind resistance	
Rseas = Additional sea-state resistance	
Rchan = Additional channel resistance	
Rmisc = Miscellaneous resistance	
Rtotal = Total vessel resistance	
PEtotal = Total effective power	
* = Exceeds speed parameter	





Analysis parameters			
Bare-hull	[Calc] DeGroot RB	Appendage	[Off]
Friction line	ATTC	Wind	[Calc] Taylor head wind
Technique	Prediction	Seas	[Calc] Modified Aertssen
Align to	[Off]	Channel	[Calc] Schlichting shallow
Align by	[Off]	Misc: Margin	[Calc] - 4% Hull drag only
Correlation allowance	0,0004	Water type	Standard Fresh
Roughness (mm)	[On] 0,2	Mass density	999,01 [kg/m3]
3D form factor	[Off] 1,2414	Kinematic viscosity	1,1390e-06 [m2/s]
Speed dependent correction	[On]		

Prediction results

Vel [kts]	Fn	Rn	Cf	[Cform]	[Cw]	Cr	Ct
9,00	0,333	7,99e+7	0,002139	0,000000	0,000000	0,003025	0,005564
10,00	0,370	8,88e+7	0,002107	0,000000	0,000000	0,005521	0,008028
11,00	0,408	9,77e+7	0,002079	0,000000	0,000000	0,009329	0,011808
12,00	0,445	1,07e+8	0,002054	0,000000	0,000000	0,013090	0,015544
13,00	0,482	1,15e+8	0,002031	0,000000	0,000000	0,015992	0,018423
14,00	0,519	1,24e+8	0,002010	0,000000	0,000000	0,017524	0,019934
15,00	0,556	1,33e+8	0,001991	0,000000	0,000000	0,017292	0,019683
16,00	0,593	1,42e+8	0,001973	0,000000	0,000000	0,016077	0,018450
Vel [kts]	Rw/W	Rr/W	Rbare/W	Rw [kN]	Rr [kN]	Rbare [kN]	PEbare [kW]
9,00	0,00000	0,00545	0,01002	0	3	5	25
10,00	0,00000	0,01228	0,01785	0	7	10	49
11,00	0,00000	0,02510	0,03177	0	14	17	97
12,00	0,00000	0,04192	0,04978	0	23	27	165
13,00	0,00000	0,06010	0,06924	0	32	37	249
14,00	0,00000	0,07638	0,08689	0	41	47	337
15,00	0,00000	0,08652	0,09849	0	47	53	409
16,00	0,00000	0,09153	0,10504	0	49	57	465
Vel [kts]	Rapp [kN]	Rwind [kN]	Rseas [kN]	Rchan [kN]	Rmisc [kN]	Rtotal [kN]	PEtotal [kW]
9,00	0	3	6	0	0	14	66
10,00	0	3	12	0	0	25	129
11,00	0	3	23	0	1	44	251
12,00	0	4	37	0	1	69	428
13,00	0	4	53	1	1	97	646
14,00	0	4	67	3	2	122	881
15,00	0	4	76	5	2	140	1083
16,00	0	5	81	8	2	152	1254

Hull data

General:			Ct-based:	
Length between PP	19,912 [m]		Max section area	4,646 [m2]
WL bow pt aft FP	0,000 [m]		Waterplane area	69,861 [m2]
Length on WL	19,662 [m]		Trim by stern	0,150 [m]
Max beam on WL	5,128 [m]		LCB aft of FP	11,385 [m]
Max molded draft	1,250 [m]		Bulb ext fwd FP	0,067 [m]
Displacement bare	54,85 [t]		Bulb area at FP	0,018 [m2]
Wetted surface	90,488 [m2]		Bulb ctr above BL	0,899 [m]
Chine type	Round bilge		Transom area	1,140 [m2]
			Transom beam	4,260 [m]
Parameters:			Transom draft	0,290 [m]
Lwl/B	3,8342		Half ent angle	14,1 [deg]
B/T	4,1024		Bow shape	Buttock flow [V-shape]
Cb	0,4356		Stern shape	WL flow [U-shape]
Cws	2,7541			
			Cx	0,7248

Cw	0,6929
LCB/Lpp	0,5718
At/Ax	0,2454
Bt/Bx	0,8307
Tt/T	0,2320

Parameters:	DeGroot RB	
Fn(Lwl)	0,3...1.05	0,33
Fn-high	0,3...1.05	0,59
Cvol(Lwl)	4,67...8,96	5,17
Lwl/Bwl	3,53...10,1	3,83
Bwl/T	2,72...6,58	4,10
Cx	0,56...0,89	0,72
At/Ax	0...0,3	0,25

Appendages

Wetted areas (ex. thruster):		[Drag coefficient]
Rudders	0,000 [m2]	[0,000]
Shaft brackets	0,000 [m2]	[0,000]
Skeg	0,000 [m2]	[0,000]
Strut bossing	0,000 [m2]	[0,000]
Hull bossing	0,000 [m2]	[0,000]
Exposed shafts	0,000 [m2]	[0,000]
Stablizer fins	0,000 [m2]	[0,000]
Dome	0,000 [m2]	[0,000]
Bilge keel	0,000 [m2]	[0,000]
Bow thruster diam	0,000 [m]	[0,000]

Environment data

Wind:		Seas:	
Wind speed	26,05 [kts]	Sig. wave height	3,500 [m]
Angle off bow	0,000 [deg]	Modal wave period	7,7 [sec]
Tran hull area	9,150 [m2]		
VCE above WL	0,860 [m2]	Channel:	
Tran superst area	12,570 [m2]	Channel width	0,000 [m]
VCE above WL	3,090 [m]	Channel depth	10,000 [m]
Total Longl area	62,950 [m2]	Side slope	0,000 [deg]
VCE above WL	1,880 [m]	Wetted hull girth	7,630 [m]
Wind speed	Free stream		
Arrangement	Passenger		

Symbols and values

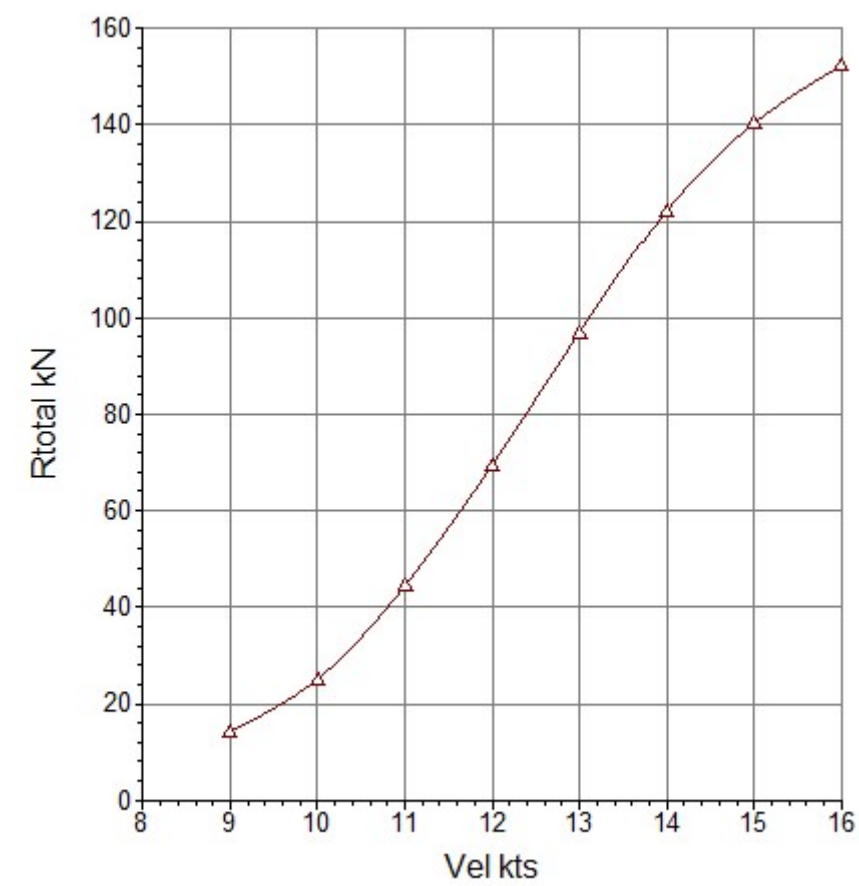
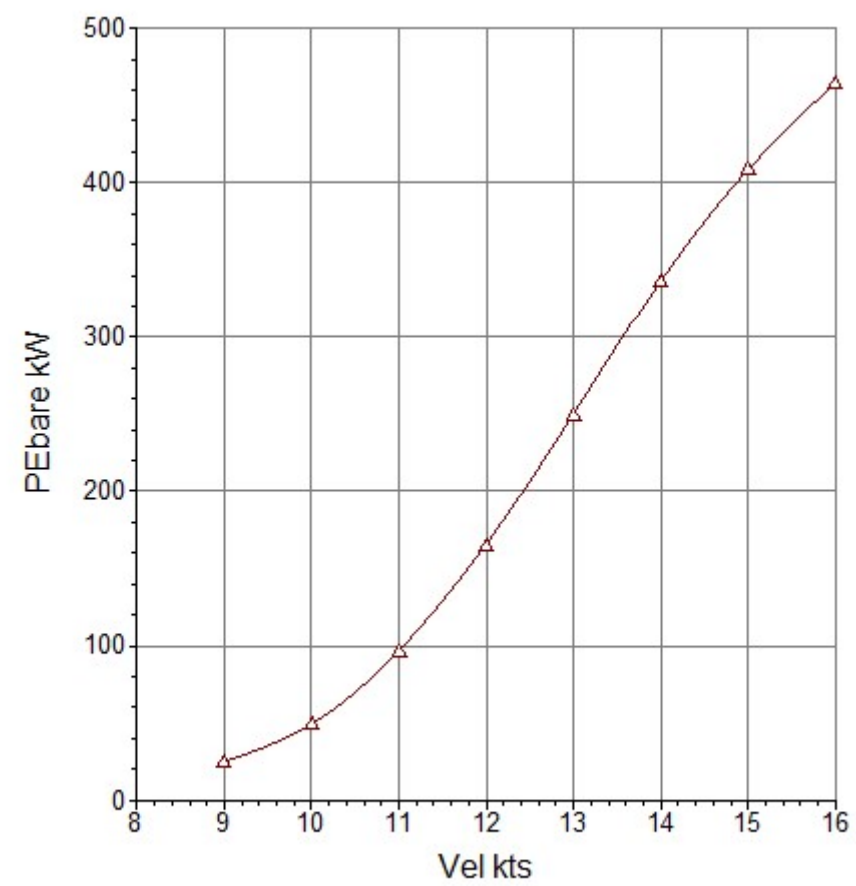
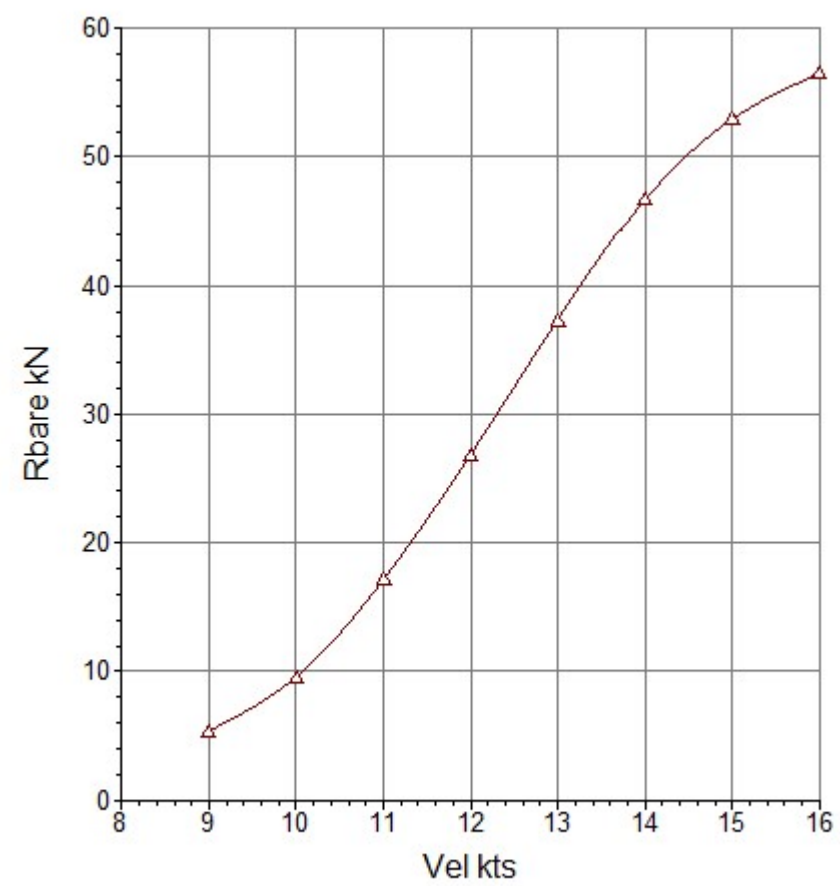
Fn = Length Froude number
Rn = Reynolds number
Cf = Frictional resistance coefficient
[Cform] = Viscous form resistance coefficient

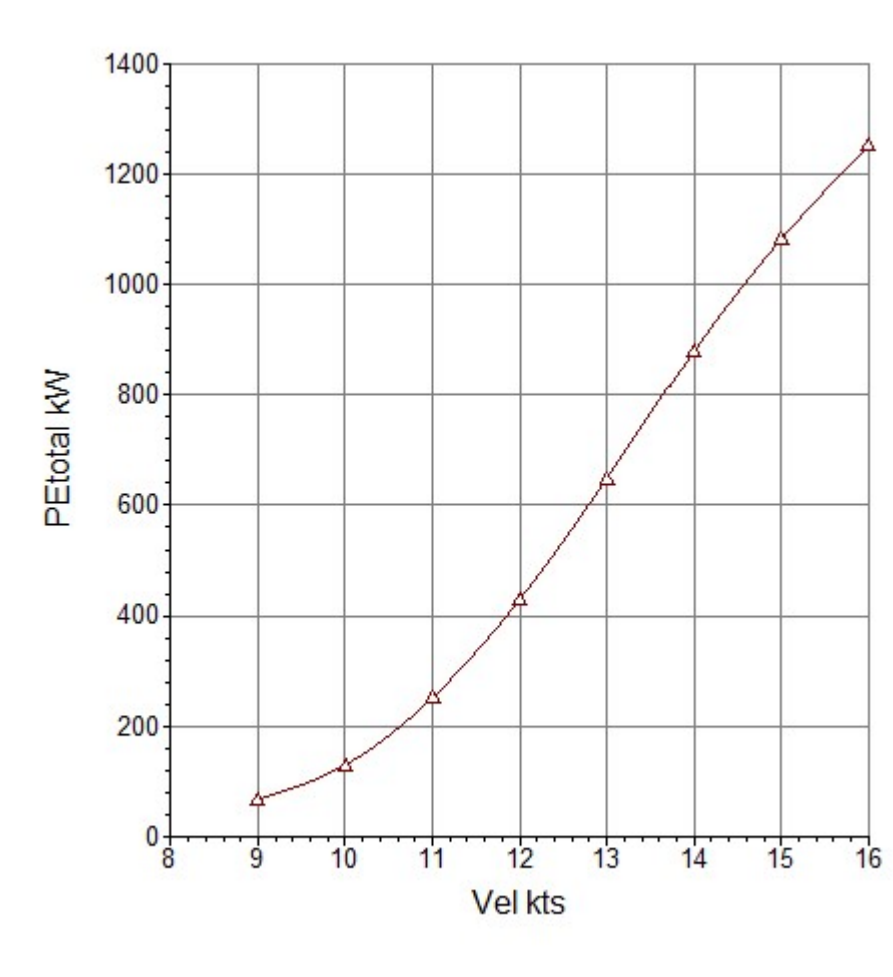
[Cw] = Wave-making resistance coefficient
Cr = Residuary resistance coefficient
Ct = Total bare-hull resistance coefficient

Rw/W = Wave-making resistance-weight merit ratio
Rr/W = Residuary resistance-weight merit ratio
Rbare/W = Bare-hull resistance-weight merit ratio
Rw = Wave-making resistance component
Rr = Residuary resistance component
Rbare = Bare-hull resistance
PEbare = Bare-hull effective power

Rapp = Additional appendage resistance
Rwind = Additional wind resistance
Rseas = Additional sea-state resistance
Rchan = Additional channel resistance
Rmisc = Miscellaneous resistance
Rtotal = Total vessel resistance
PETotal = Total effective power

* = Exceeds speed parameter





Analysis parameters

Bare-hull	[Calc] Holtrop 1984	Appendage	[Off]
Friction line	ITTC	Wind	[Calc] Taylor head wind
Technique	Prediction	Seas	[Calc] Modified Aertssen
Align to	[Off]	Channel	[Calc] Schlichting shallow
Align by	[Off]	Misc: Margin	[Calc] - 4% Hull drag only
Correlation allowance	0,00054	Water type	Standard Fresh
Roughness (mm)	[On] 0,2	Mass density	999,01 [kg/m3]
3D form factor	[On] 1,3522	Kinematic viscosity	1,1390e-06 [m2/s]
Speed dependent correction	[On]		

Prediction results

Vel [kts]	Fn	Rn	Cf	[Cform]	[Cw]	Cr	Ct
5,00	0,185	4,44e+7	0,002352	0,000793	0,001930	0,002723	0,005614
7,00	0,259	6,22e+7	0,002234	0,000673	0,002187	0,002860	0,005635

9,00	0,333	7,99e+7	0,002153	0,000477	0,003294	0,003771	0,006463
10,00	0,370	8,88e+7	0,002120	0,000359	0,004193	0,004552	0,007212
11,00	0,408	9,77e+7	0,002090	0,000265	0,006312	0,006577	0,009207
12,00	0,445	1,07e+8	0,002064	0,000212	0,008510	0,008722	0,011327
13,00	0,482	1,15e+8	0,002041	0,000175	0,010131	0,010306	0,012887
14,00	0,519	1,24e+8	0,002019	0,000140	0,010985	0,011124	0,013683
15,00	0,556	1,33e+8	0,001999	0,000105	0,011004	0,011109	0,013649
16,00	0,593	1,42e+8	0,001981	0,000075	0,010497	0,010572	0,013093
Vel [kts]	Rw/W	Rr/W	Rbare/W	Rw [kN]	Rr [kN]	Rbare [kN]	PEbare [kW]
5,00	0,00107	0,00151	0,00312	1	1	2	4
7,00	0,00238	0,00312	0,00614	1	2	3	12
9,00	0,00593	0,00679	0,01164	3	4	6	29
10,00	0,00933	0,01012	0,01604	5	5	9	44
11,00	0,01698	0,01770	0,02478	9	10	13	75
12,00	0,02725	0,02793	0,03627	15	15	20	120
13,00	0,03808	0,03873	0,04843	20	21	26	174
14,00	0,04788	0,04849	0,05964	26	26	32	231
15,00	0,05506	0,05559	0,06830	30	30	37	283
16,00	0,05976	0,06019	0,07454	32	32	40	330
Vel [kts]	Rapp [kN]	Rwind [kN]	Rseas [kN]	Rchan [kN]	Rmisc [kN]	Rtotal [kN]	PEtotal [kW]
5,00	0	2	1	0	0	5	12
7,00	0	2	3	0	0	9	32
9,00	0	3	7	0	0	17	77
10,00	0	3	11	0	0	23	117
11,00	0	3	17	0	1	35	196
12,00	0	4	27	0	1	51	313
13,00	0	4	36	1	1	68	454
14,00	0	4	45	2	1	84	606
15,00	0	4	52	3	1	97	752
16,00	0	5	57	5	2	108	890

Hull data			
General:		Ct-based:	
Length between PP	19,912 [m]	Max section area	4,646 [m2]
WL bow pt aft FP	0,000 [m]	Waterplane area	69,861 [m2]
Length on WL	19,662 [m]	Trim by stern	0,150 [m]
Max beam on WL	5,128 [m]	LCB aft of FP	11,385 [m]
Max molded draft	1,250 [m]	Bulb ext fwd FP	0,067 [m]
Displacement bare	54,85 [t]	Bulb area at FP	0,018 [m2]
Wetted surface	90,488 [m2]	Bulb ctr above BL	0,899 [m]
Chine type	Round bilge	Transom area	1,140 [m2]
Parameters:		Transom beam	4,260 [m]
Lwl/B	3,8342	Transom draft	0,290 [m]
B/T	4,1024	Half ent angle	14,1 [deg]
Cb	0,4356	Bow shape	Buttock flow [V-shape]
Cws	2,7541	Stern shape	WL flow [U-shape]

Cx	0,7248
Cw	0,6929
LCB/Lpp	0,5718
At/Ax	0,2454
Bt/Bx	0,8307
Tt/T	0,2320

Parameters:	Holtrop 1984		
Fn(Lwl)	0,1...0,8	0,19	
Fn-high	0,1...0,8	0,59	
Lwl/Bwl	3,9...14,9	3,83	Limit
Bwl/T	2,1...4	4,10	Limit
Cp(Lwl)	0,55...0,85	0,60	
Lambda	0...0,76	0,75	

Appendages

Wetted areas (ex. thruster):		[Drag coefficient]
Rudders	0,000 [m2]	[0,000]
Shaft brackets	0,000 [m2]	[0,000]
Skeg	0,000 [m2]	[0,000]
Strut bossing	0,000 [m2]	[0,000]
Hull bossing	0,000 [m2]	[0,000]
Exposed shafts	0,000 [m2]	[0,000]
Stablizer fins	0,000 [m2]	[0,000]
Dome	0,000 [m2]	[0,000]
Bilge keel	0,000 [m2]	[0,000]
Bow thruster diam	0,000 [m]	[0,000]

Environment data

Wind:		Seas:	
Wind speed	26,05 [kts]	Sig. wave height	3,500 [m]
Angle off bow	0,000 [deg]	Modal wave period	7,7 [sec]
Tran hull area	9,150 [m2]		
VCE above WL	0,860 [m2]	Channel:	
Tran superst area	12,570 [m2]	Channel width	0,000 [m]
VCE above WL	3,090 [m]	Channel depth	10,000 [m]
Total Longl area	62,950 [m2]	Side slope	0,000 [deg]
VCE above WL	1,880 [m]	Wetted hull girth	7,630 [m]
Wind speed	Free stream		
Arrangement	Passenger		

Symbols and values

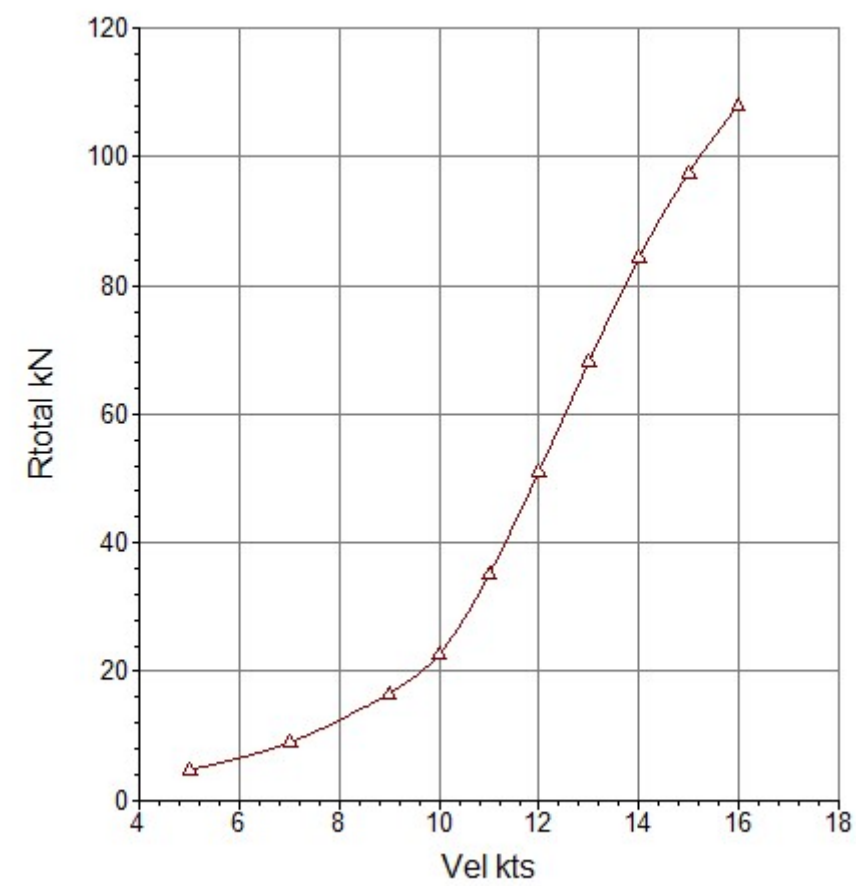
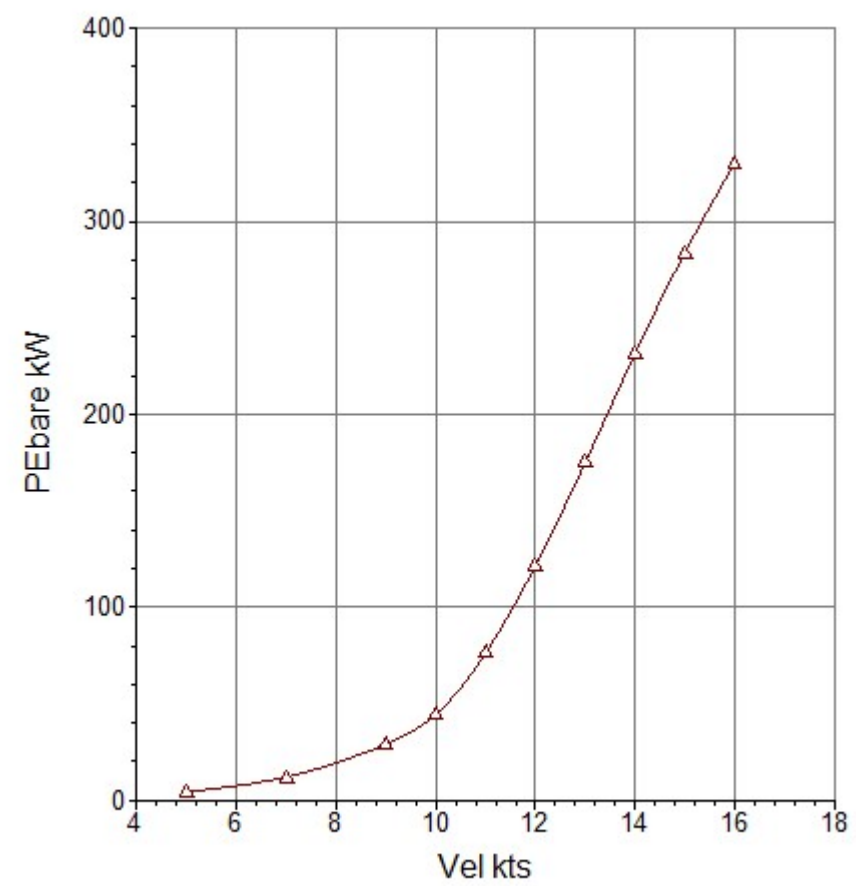
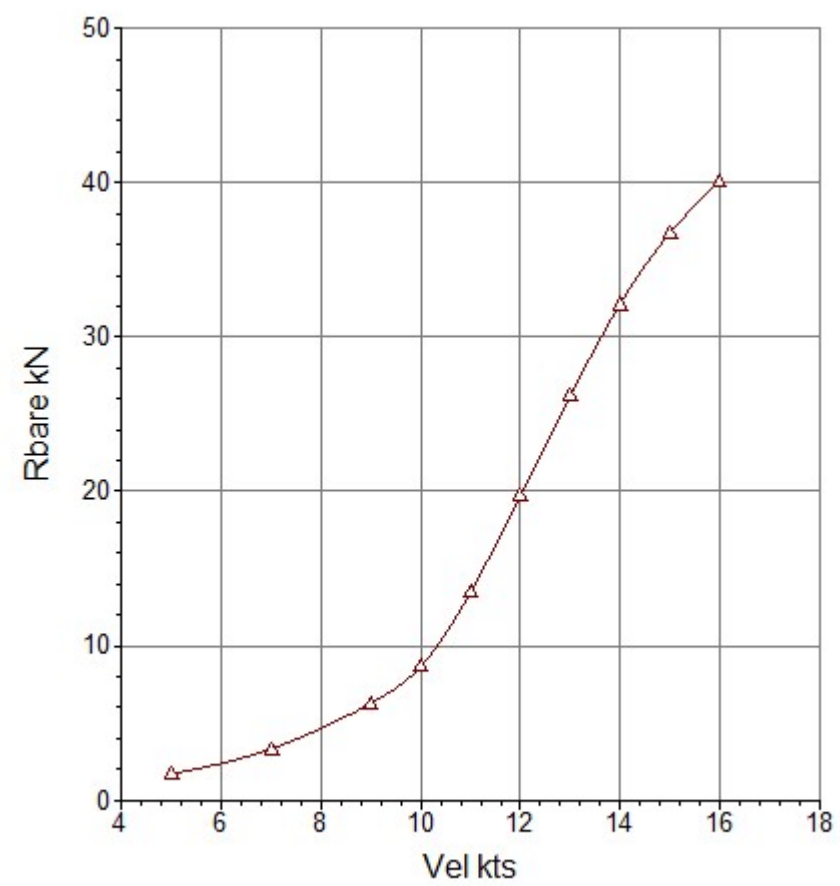
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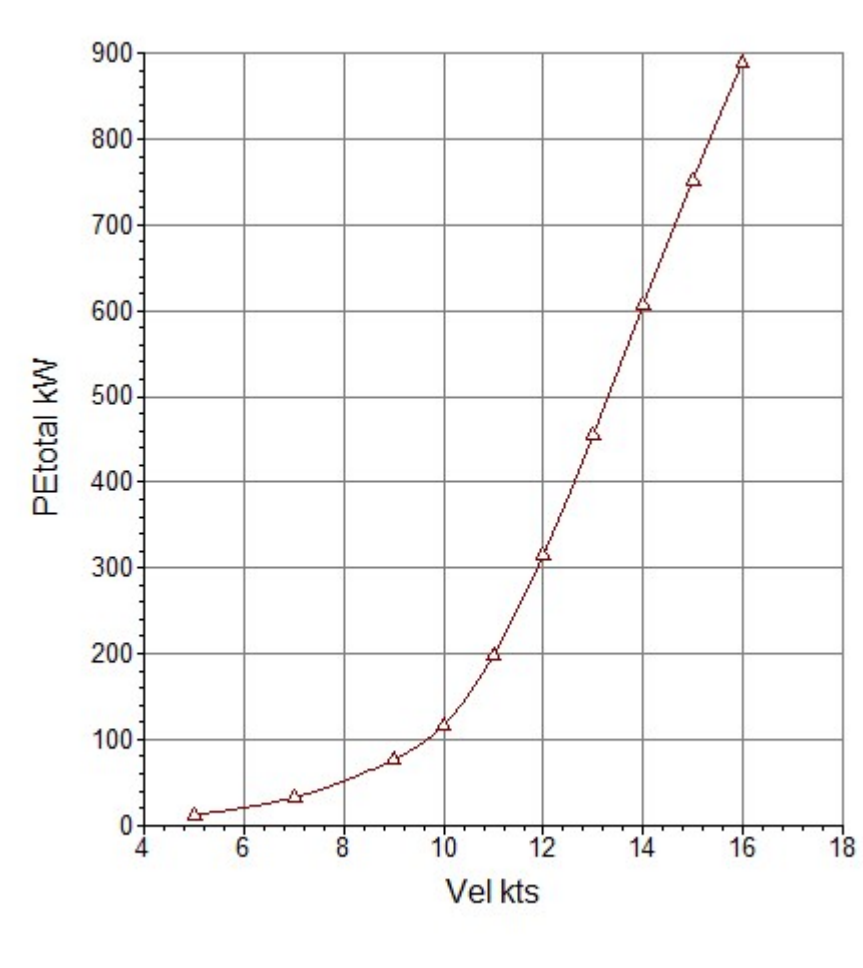
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Rbare/W = Bare-hull resistance-weight merit ratio
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Rr = Residuary resistance component
Rbare = Bare-hull resistance
PEbare = Bare-hull effective power

Rapp = Additional appendage resistance
Rwind = Additional wind resistance
Rseas = Additional sea-state resistance
Rchan = Additional channel resistance
Rmisc = Miscellaneous resistance
Rtotal = Total vessel resistance
PETotal = Total effective power

* = Exceeds speed parameter





Analysis parameters									
Bare-hull	[Calc] HSTS				Appendage	[Off]			
Friction line	ITTC				Wind	[Calc] Taylor head wind			
Technique	Prediction				Seas	[Calc] Modified Aertssen			
Align to	[Off]				Channel	[Calc] Schlichting shallow			
Align by	[Off]				Misc: Margin	[Calc] - 4% Hull drag only			
Correlation allowance	0,0004				Water type	Standard Fresh			
Roughness (mm)	[On] 0,2				Mass density	999,01 [kg/m3]			
3D form factor	[On] 1,2414				Kinematic viscosity	1,1390e-06 [m2/s]			
Speed dependent correction	[On]								
Prediction results									
Vel [kts]	Fn	Rn	Cf	[Cform]	[Cw]	Cr	Ct		
5,00	0,185	4,44e+7	0,002352	0,000543	0,001159	0,001702	0,004454		
7,00	0,259	6,22e+7	0,002234	0,000461	0,002744	0,003205	0,005839		
9,00	0,333	7,99e+7	0,002153	0,000327	0,004430	0,004757	0,007310		
10,00	0,370	8,88e+7	0,002120	0,000246	0,005434	0,005680	0,008200		
11,00	0,408	9,77e+7	0,002090	0,000182	0,007907	0,008089	0,010579		

12,00	0,445	1,07e+8	0,002064	0,000146	0,011691	0,011836	0,014301
13,00	0,482	1,15e+8	0,002041	0,000120	0,014850	0,014970	0,017411
14,00	0,519	1,24e+8	0,002019	0,000096	0,015909	0,016005	0,018424
15,00	0,556	1,33e+8	0,001999	0,000072	0,015216	0,015289	0,017688
16,00	0,593	1,42e+8	0,001981	0,000051	0,013778	0,013829	0,016211
Vel [kts]	Rw/W	Rr/W	Rbare/W	Rw [kN]	Rr [kN]	Rbare [kN]	PEbare [kW]
5,00	0,00064	0,00095	0,00248	0	1	1	3
7,00	0,00299	0,00349	0,00636	2	2	3	12
9,00	0,00798	0,00857	0,01317	4	5	7	33
10,00	0,01208	0,01263	0,01824	7	7	10	50
11,00	0,02128	0,02177	0,02847	11	12	15	87
12,00	0,03744	0,03790	0,04580	20	20	25	152
13,00	0,05581	0,05626	0,06544	30	30	35	235
14,00	0,06935	0,06976	0,08031	37	38	43	311
15,00	0,07614	0,07650	0,08851	41	41	48	367
16,00	0,07844	0,07873	0,09229	42	42	50	409
Vel [kts]	Rapp [kN]	Rwind [kN]	Rseas [kN]	Rchan [kN]	Rmisc [kN]	Rtotal [kN]	PEtotal [kW]
5,00	0	2	0	0	0	4	10
7,00	0	2	3	0	0	9	33
9,00	0	3	8	0	0	19	86
10,00	0	3	12	0	0	26	132
11,00	0	3	20	0	1	40	225
12,00	0	4	34	0	1	64	394
13,00	0	4	50	1	1	91	611
14,00	0	4	62	2	2	113	814
15,00	0	4	68	4	2	126	974
16,00	0	5	71	7	2	134	1102

Hull data			
General:		Ct-based:	
Length between PP	19,912 [m]	Max section area	4,646 [m2]
WL bow pt aft FP	0,000 [m]	Waterplane area	69,861 [m2]
Length on WL	19,662 [m]	Trim by stern	0,150 [m]
Max beam on WL	5,128 [m]	LCB aft of FP	11,385 [m]
Max molded draft	1,250 [m]	Bulb ext fwd FP	0,067 [m]
Displacement bare	54,85 [t]	Bulb area at FP	0,018 [m2]
Wetted surface	90,488 [m2]	Bulb ctr above BL	0,899 [m]
Chine type	Round bilge	Transom area	1,140 [m2]
		Transom beam	4,260 [m]
		Transom draft	0,290 [m]
		Half ent angle	14,1 [deg]
Parameters:		Bow shape	Buttock flow [V-shape]
Lwl/B	3,8342	Stern shape	WL flow [U-shape]
B/T	4,1024		
Cb	0,4356		
Cws	2,7541		
		Cx	0,7248
		Cw	0,6929
		LCB/Lpp	0,5718

At/Ax
Bt/Bx
Tt/T

0,2454
0,8307
0,2320

Parameters:	HSTS		
Fn(Lwl)	0,15...0,90	0,19	
Fn-high	0,15...0,90	0,59	
Cvol(Lwl)	4,73...10,6	5,17	
Lwl/Bwl	3,4...12,1	3,83	
Bwl/T	2,1...6,9	4,10	
Cp(Lwl)	0,55...0,72	0,60	
Ie	3,7...26	14,1	
LCB(Lwl)	-6...1 (%Lwl)	-7,90	Limit
Cx	0,59...0,98	0,72	
At/Ax	0...0,54	0,25	
Bt/Bwl	0,17...0,95	0,83	
Tt/T	0,05...0,59	0,23	

Appendages

Wetted areas (ex. thruster):		[Drag coefficient]
Rudders	0,000 [m2]	[0,000]
Shaft brackets	0,000 [m2]	[0,000]
Skeg	0,000 [m2]	[0,000]
Strut bossing	0,000 [m2]	[0,000]
Hull bossing	0,000 [m2]	[0,000]
Exposed shafts	0,000 [m2]	[0,000]
Stablizer fins	0,000 [m2]	[0,000]
Dome	0,000 [m2]	[0,000]
Bilge keel	0,000 [m2]	[0,000]
Bow thruster diam	0,000 [m]	[0,000]

Environment data

Wind:		Seas:	
Wind speed	26,05 [kts]	Sig. wave height	3,500 [m]
Angle off bow	0,000 [deg]	Modal wave period	7,7 [sec]
Tran hull area	9,150 [m2]		
VCE above WL	0,860 [m2]	Channel:	
Tran superst area	12,570 [m2]	Channel width	0,000 [m]
VCE above WL	3,090 [m]	Channel depth	10,000 [m]
Total Longl area	62,950 [m2]	Side slope	0,000 [deg]
VCE above WL	1,880 [m]	Wetted hull girth	7,630 [m]
Wind speed	Free stream		
Arrangement	Passenger		

Symbols and values

Fn = Length Froude number

Rn = Reynolds number
Cf = Frictional resistance coefficient
[Cform] = Viscous form resistance coefficient
[Cw] = Wave-making resistance coefficient
Cr = Residuary resistance coefficient
Ct = Total bare-hull resistance coefficient

Rw/W = Wave-making resistance-weight merit ratio
Rr/W = Residuary resistance-weight merit ratio
Rbare/W = Bare-hull resistance-weight merit ratio
Rw = Wave-making resistance component
Rr = Residuary resistance component
Rbare = Bare-hull resistance
PEbare = Bare-hull effective power

Rapp = Additional appendage resistance
Rwind = Additional wind resistance
Rseas = Additional sea-state resistance
Rchan = Additional channel resistance
Rmisc = Miscellaneous resistance
Rtotal = Total vessel resistance
PEtotal = Total effective power

* = Exceeds speed parameter

