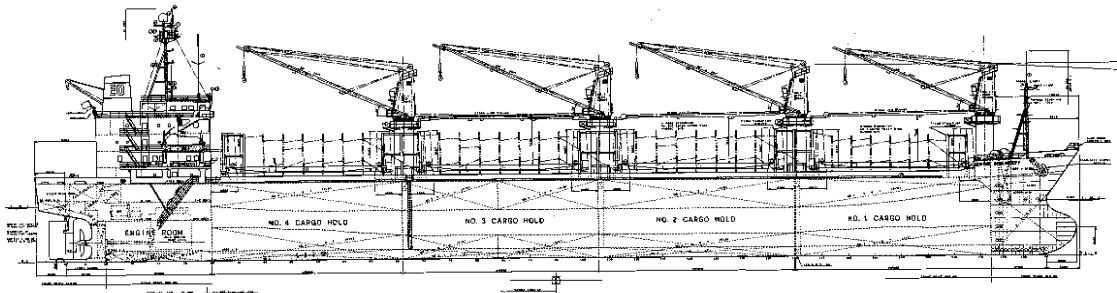


MV „DORTHE OLDENDORFF“

GRAIN LOADING AND STABILITY BOOKLET

by Chapter VI, SOLAS 1974 & IMO Resolution MSC.23(59)



(Compiled for training purpose by S. Wessels, Staatliche Seefahrtsschule Cuxhaven)

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1 Principal particulars

Lenght over all	157,60 m
Lenght between perpendiculars	148,00 m
Breadth moulded	25,00 m
Depth moulded	12,70 m
Full load draught (Summer)	9,109 m
Full loaded displacement	27254 t
Deadweight	22059 t
Gross tonnage (Register)	13712
Net tonnage (Register)	7780
Light ship weight	5195 t
x_G for light ship	67,38 m
z_G for light ship	9,38 m
Class name	ABS
symbol	+A1 E, +AMS
Complement	26 Persons
Main Engine Type and number	6UEC45LA
Normal power	6480 HP at 152,5 min ⁻¹
MCR	7200 HP at 158 min ⁻¹
Service speed at full load draught	14,0 knots
Call sign	ELQJ6
Official number	9987
Port of registry	Monrovia

2 Abbreviations in this booklet

Abbreviation	Explanation	unit
X _B	Centre of buoyancy from aft perpendicular	m
X _F	Centre of floatation from aft perpendicular	m
X _G	Centre of gravity from aft perpendicular	m
Z _B	Centre of buoyancy above base line	m
Z _G	Vertical centre of gravity above base line	m
KG	Ship's Centre of gravity above base line	m
KG _C	KG corrected for free surface effects of liquids in tanks; KG _C = KG + ΔKG	m
TPC	Tons per one centimeter immersion	t/cm
M _{TM}	Moment to change trim by one metre	tm/m
KM	Transverse metacentric height above base line	m
GM	Transverse metacentric height above centre of gravity without correction for free surface effects of liquids in tanks	m
GM _C	GM corrected for free surface effects of liquids in tanks; GM _C = GM - ΔGM	m
ΔGM = ΔKG	The value of free surface correction; ΔGM = Σ(i _b * ρ) / DISPM	m
i _b	Transverse moment of inertia of the surface of liquids	m ⁴
TSM	Volumetric Transverse Shifting Moment (of grain)	m ⁴
SF	Stowage Factor (m ³ / t)	m ³ /t
Φ _f	Inflow angle	°
Φ _h	Heeling angle due to grain shift	°
Φ _m	Limiting angle for residual dynamical stability calculation	°
DISPM	Displacement mass in seawater of density = 1,025 t/m ³	t
DISPV	Displacement volume	m ³
C _B	Block coefficient	
C _w	Waterplane area coefficient	
λ ₀	Heeling lever due to grain shift at Φ = 0°	m
λ ₄₀	Heeling lever due to grain shift at Φ = 40°	m

3 Introduction

This „Grain Loading Plan and Stability Booklet“ for this ship has been prepared to enable the master to demonstrate the ability of the ship at all stages of voyage carrying bulk grain to comply with the stability requirements of chapter VI, SOLAS 1974.

4 Regulations to be observed

4.1 Trimming of grain

All necessary and reasonable trimming shall be performed to level all free grain surfaces and to minimize the effect of grain shifting.

In any „filled compartment“, the bulk grain shall be trimmed so as to fill all the spaces under the decks and hatch covers to the maximum extent possible.

After loading, all free grain surfaces in „partly filled compartments“ shall be trimmed level and the ship shall be upright before proceeding to sea.

4.2 Intact Stability Requirements

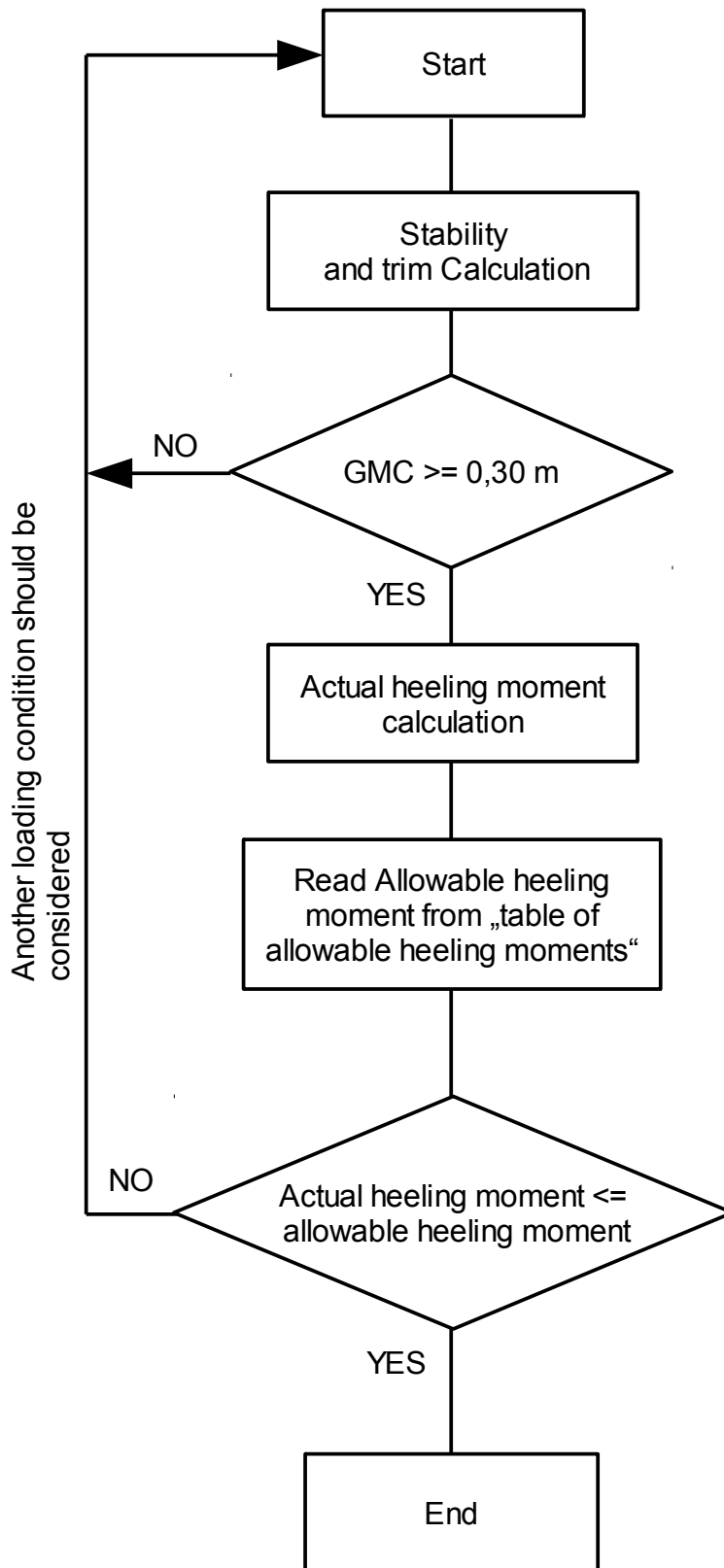
The intact stability characteristics of any ship carrying bulk grain shall be shown to meet, throughout the voyage, at least the following criteria after taking into account the heeling moments due to grain shift:

1. the angle of heel due to shift of grain shall not be greater than 12 degrees.
2. in the statical stability diagram, the net residual area between the heeling arm curve and the righting arm curve up to the angle of heel of maximum difference between the ordinates of the two curves, or 40 degrees or the „[angle of flooding](#)“ (ϕ_f), whichever is the least, shall in all conditions not be less than 0,075 meter*radians and
3. the initial metacentric height, after correction for the free surface effects of liquids in tanks, shall not be less than 0,30 metres.

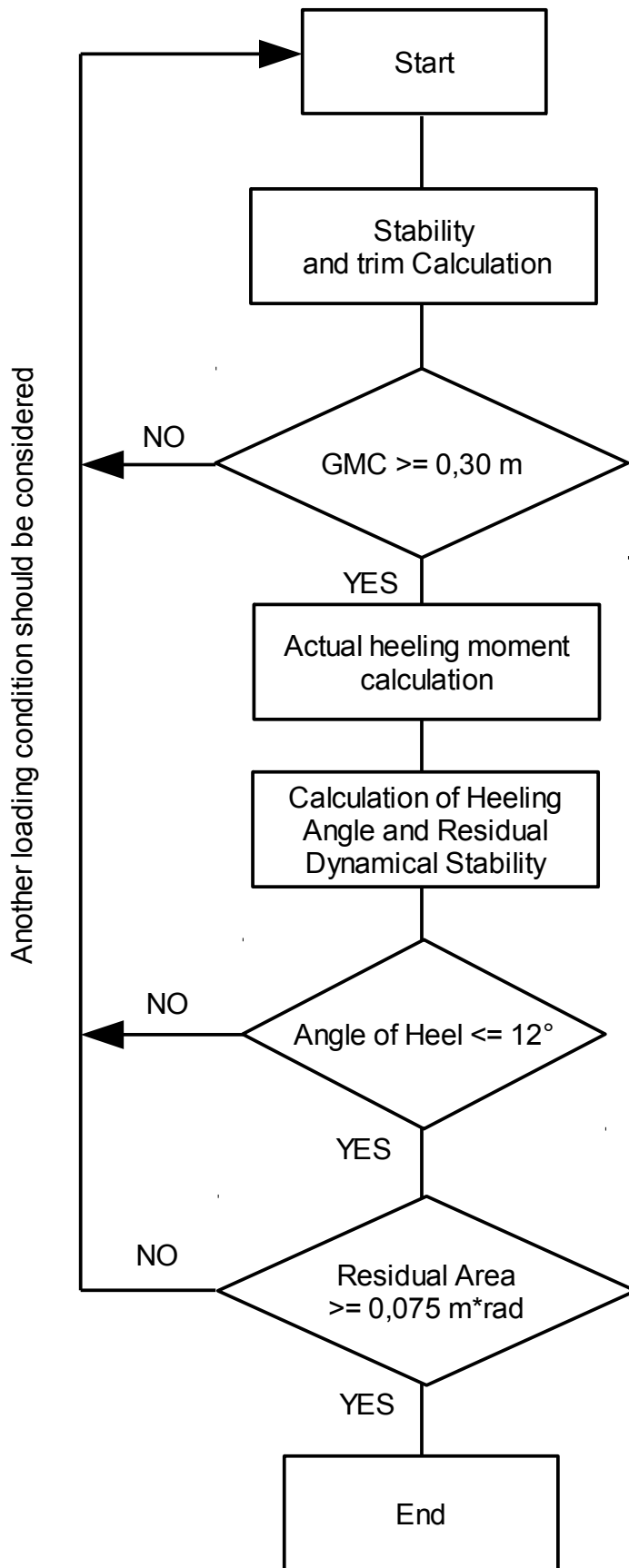
4.3 Method of grain loading calculation

This Grain Loading Booklet provides two ways of calculating the intact stability for the purpose of the requirements in the relevant regulation (see 4.2): one is a method using the „[Table of allowable grain heeling moment](#)“ and the other is to obtain directly the heeling angle and residual dynamical stability from the stability curve, the latter being more accurate in particular.

5 Grain loading calculation using allowable grain heeling moment



6 Grain loading calculation using stability curve



7 Actual heeling moment calculation

The heeling moment is obtained in the following procedure as shown below.

1. Decide the masses and their centres of gravity of the grain cargoes and write them into the proper column of the [„stability and trim calculation form“](#).
2. Calculate the volumes (m^3) from the following formula and write them into the proper column of the [„stability and trim calculation form“](#).

$$V(m^3) = SF(m^3/t) \cdot m(t)$$

3. Find out the Volumetric Transverse Heeling Moment TSM (m^4) corresponding to the volume (m^3) as follows:
 - For „filled compartments“ refer to the section [„Summary table of heeling moments for filled holds“](#) of this booklet.
 - For „partly filled compartments“ refer to section [„Tables of volumetric shifting moment at partly filled compartments“](#).

Write down the Volumetric Heeling Moments into column (1) of the [„grain stability calculation form“](#).

In order to take into account the adverse effect of vertical shift of grain surfaces in „partly filled compartments“, the Transverse Heeling Moment has to be multiplied by „K“ where multiplier „K“ is:

- 1,00 for „filled compartments“ where volumetric centre of cargo hold has been used from [„Capacity table of cargo holds“](#)
- 1,12 for „partly filled compartments“

Write down the multiplier „K“ into column (2) of the [„grain stability calculation form“](#).

4. Transform *Volumetric Transverse Heeling Moment* (m^4) into *Heeling Moment* (tm) from the following formula and write it into column (4) of the [„grain stability calculation form“](#).

$$HM(tm) = \frac{K \cdot TSM(m^4)}{SF(m^3/t)}$$

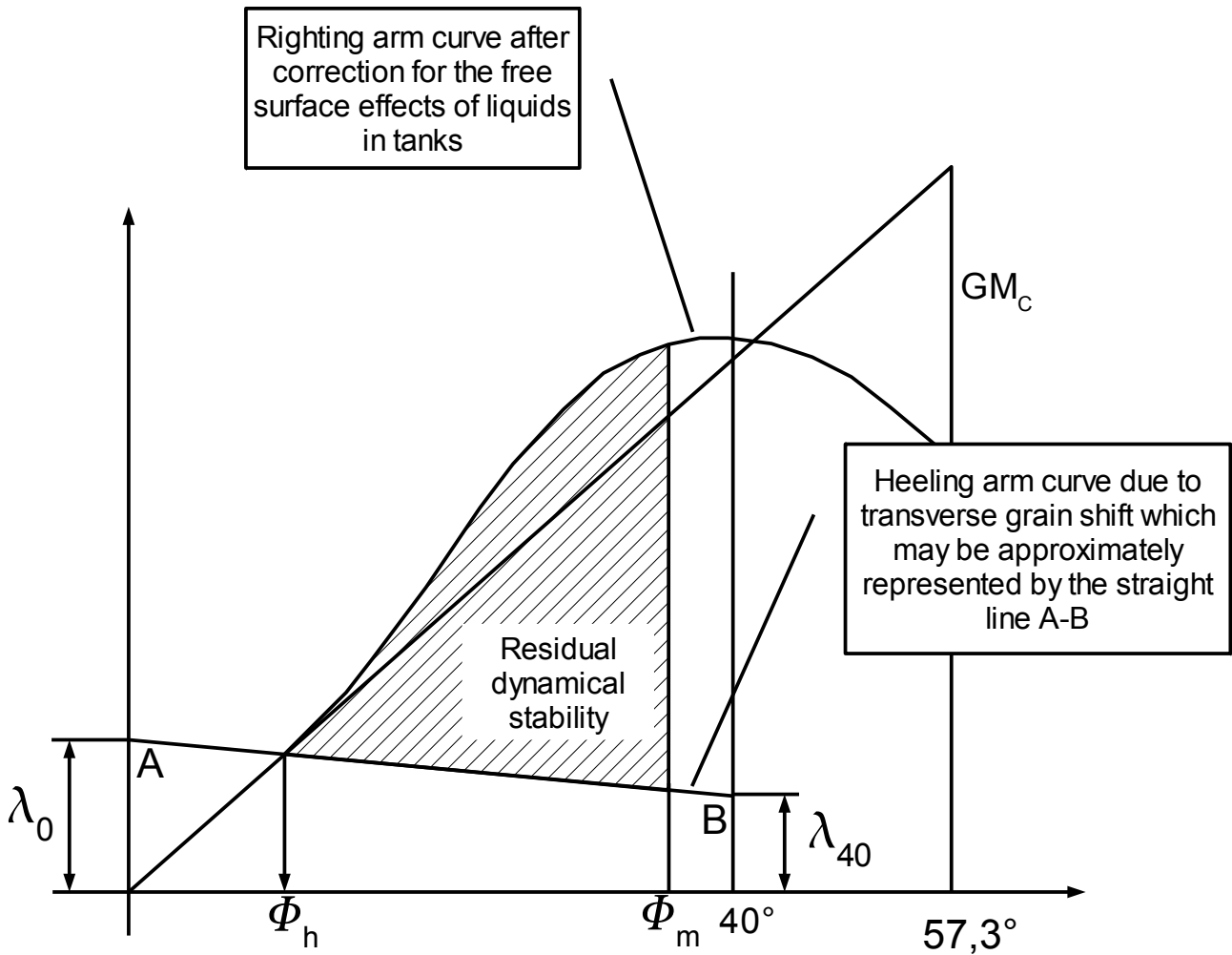
8 **Table of allowable heeling moment**

DISPM	t	27500	27000	26500	26000	25500	25000	24500	24000	23500	23000	22500	22000	21500	21000	20500
KGc_max	m	9,89	9,88	9,88	9,88	9,89	9,9	9,91	9,93	9,95	9,98	10,02	10,06	10,11	10,16	10,22
Min. HM	fm	2662	2643	2594	2572	2496	2473	2450	2426	2400	2373	2322	2270	2219	2189	2137
	7	20241	19842	19474	19134	18796	18509	18219	17979	17733	17533	17351	17160	17008	16867	16737
	7,1	19632	19244	18888	18559	18232	17956	17677	17448	17214	17025	16853	16674	16532	16403	16284
	7,2	19024	18647	18302	17984	17668	17403	17135	16917	16694	16516	16356	16187	16057	15938	15831
	7,3	18416	18050	17716	17409	17104	16850	16594	16387	16174	16007	15858	15700	15581	15474	15377
	7,4	17808	17453	17130	16834	16540	16297	16052	15856	15654	15498	15361	15214	15106	15009	14924
	7,5	17199	16856	16544	16259	15976	15772	15510	15325	15135	14990	14863	14727	14630	14545	14473
	7,6	16591	16259	15957	15684	15412	15191	14968	14794	14615	14481	14365	14241	14155	14080	14017
	7,7	15983	15661	15371	15109	14848	14638	14426	14263	14095	13972	13868	13754	13679	13616	13564
	7,8	15375	15064	14785	14534	14284	14086	13884	13732	13575	13464	13370	13267	13204	13151	13110
	7,9	14766	14467	14199	13959	13720	13533	13342	13228	13055	12955	12872	12781	12728	12687	12657
	8	14158	13870	13613	13384	13156	12980	12800	12671	12536	12446	12375	12294	12253	12222	12203
	8,1	13550	13273	13027	12809	12592	12427	12258	12140	12016	11937	11877	11808	11777	11758	11750
	8,2	12942	12675	12441	12234	12028	11874	11716	11609	11496	11429	11379	11321	11302	11293	11296
	8,3	12333	12078	11855	11659	11464	11321	11175	11078	10976	10920	10882	10834	10826	10829	10843
	8,4	11725	11481	11268	11083	10900	10768	10633	10547	10457	10411	10384	10372	10350	10364	10390
	8,5	11117	10884	10682	10508	10336	10215	10091	10017	9937	9902	9886	9861	9875	9923	9936
	8,6	10538	10287	10096	9933	9800	9662	9549	9486	9417	9394	9389	9375	9399	9435	9483
	8,7	9900	9689	9510	9358	9208	9109	9007	8955	8897	8885	8891	8888	8924	8971	9029
	8,8	9292	9092	8924	8783	8644	8556	8465	8424	8378	8376	8393	8401	8448	8506	8576
residual area		0,106	0,116	0,125	0,134	0,141	0,148	0,156	0,163	0,169	0,173	0,177	0,181	0,184	0,186	0,188
heel angle		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
area range		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40

KGc (m)

9 Calculation of heeling angle & residual dynamical stability

The heeling angle and the residual dynamical stability can be obtained by the following figure.



0

$$\lambda_0 = \frac{\text{Total Heeling Moment (tm)}}{\text{Displacement (t)}}$$

$$\lambda_{40} = 0,8 * \lambda_0$$

Φ_h Angle of heel due to grain shift

Φ_m angle of heel of maximum difference between the ordinates of the two curves,
or 40 degrees
or the „angle of flooding“

10 Stability and trim calculation form

ITEM	V_max (m3)	%	V (m3)	ρ (t/m3)	m (t)	x_G (m)	M_x (tm)	z_G (m)	M_z (tm)	$ib^*\rho$ (tm)
LIGHT SHIP					5195	67,38	350039,1	9,38	48729,1	
CONSTANTS					150	19	2850	7,2	1080	
PROVISION					6	14	84	14,5	87	
SUB TOTAL										
FRESH WATER TANK (P/S)	69,4			1,000						
AFT PEAK TANK (FRESH WATER)	116,8			1,000						
SUB TOTAL										
NO.2 FUEL OIL TANK (C)	365,7			0,990						
NO.3 FUEL OIL TANK (C)	365,7			0,990						
NO.4 FUEL OIL TANK (PC)	100,6			0,990						
SUB TOTAL										
NO.4 DIESEL OIL TANK (SC)	100,6			0,900						
NO.5 DIESEL OIL TANK	57,2			0,900						
SUB TOTAL										
FORE PEAK TANK	547,9			1,025						
NO.1 WATER BALLAST TANK (P/S)	979,4			1,025						
NO.2 WATER BALLAST TANK (P/S)	898			1,025						
NO.3 WATER BALLAST TANK FWD (P/S)	472,2			1,025						
NO.3 WATER BALLAST TANK AFT (P/S)	433,8			1,025						
NO.4 WATER BALLAST TANK (P/S)	939			1,025						
NO.1 T.S.T. (P/S)	632,6			1,025						
NO.2 T.S.T. (P/S)	798,4			1,025						
NO.3 T.S.T. FWD (P/S)	407,2			1,025						
NO.3 T.S.T. AFT (P/S)	385,6			1,025						
NO.4 T.S.T. (P/S)	733,6			1,025						
SUB TOTAL										
				SF (m3/t)						
NO.1 CARGO HOLD	6266,5									
NO.2 CARGO HOLD	7856,1									
NO.3 CARGO HOLD	7870,3									
NO.4 CARGO HOLD	7261,3									
SUB TOTAL										
NO.1 ON DECK										
NO.2 ON DECK										
NO.3 ON DECK										
NO.4 ON DECK										
SUB TOTAL										
					DISPM	x_G	M_x	KG	M_z	$ib^*\rho$
GRAND TOTAL										

formulas:

- (1) $h_t = x_G - x_B$
- (2) $t = \text{DISPM} * h_t / M_{TM}$
- (3) $T_{KF} = T_{KC} - t * (x_F - L_{PP}) / L_{PP}$
- (4) $T_{KA} = T_{KC} - t * x_F / L_{PP}$
- (5) $\Delta GM = \Sigma(ib^*\rho) / \text{DISPM}$
- (6) $GMc = GM - \Delta GM$
- (7) $KGc = KG + \Delta GM$

DISPM		xG		KM	
T_KC		xB		KG	
(3) T_KF		(1) h_t		GM	
(4) T_KA		xF		(5) ΔGM	
(2) t				(6) GMc	
MTM				(7) KGc	

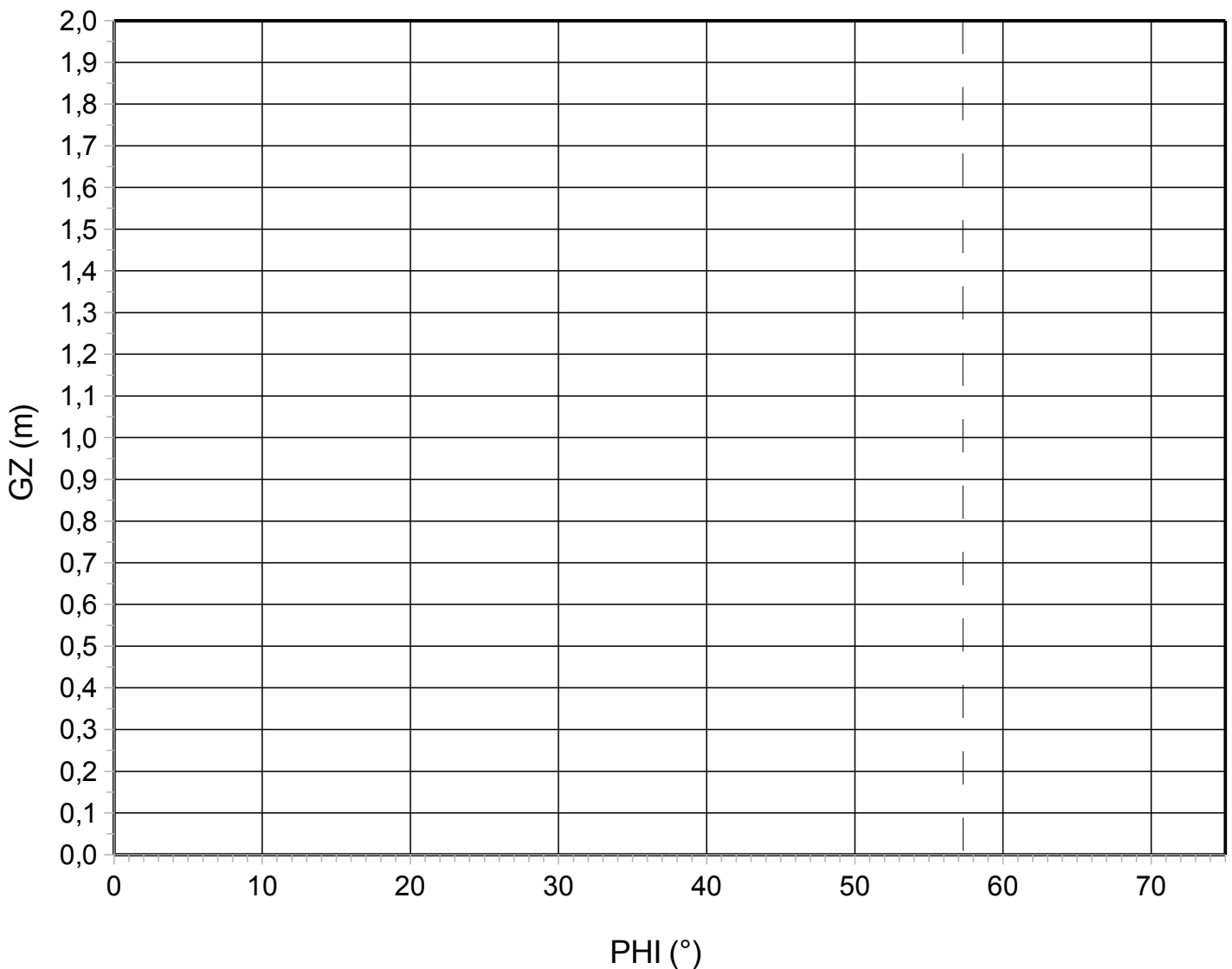
11 Grain stability calculation form

HOLD NO.	(1) TSM (m ⁴)	(2) „K“	(3) SF (m ³ /t)	(4) heel.mom.(tm) = (1) * (2) / (3)	(5) Total heel.mom. = Σ (4)	tm	
1					}		
2						(6)* DISPM =	t
3						(7)* λ ₀ = (5) / (6)	m
4						(8)* λ ₄₀ = λ ₀ * 0,8	m

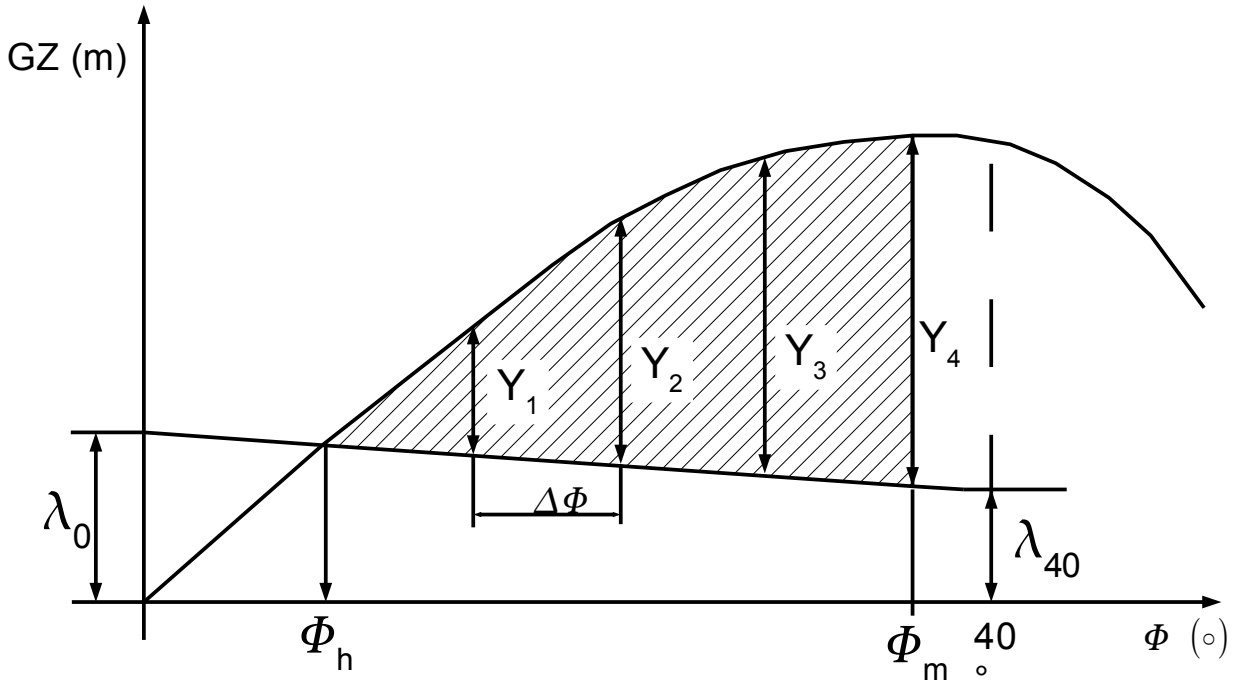
*) only needed for method of grain loading calculation using stability curve

Φ	LK 10	LK 12	LK 20	LK 30	LK 40	LK 50	LK 60	LK 75
KN * sin(Φ)								
KGc * sin(Φ)								
GZ(Φ)								

GZ curve



12 Calculation of residual dynamical stability area



$\Phi_m =$	°			Factor	
$\Phi_h =$	°	$Y_1 =$	(m)	* 4 =	
$\Phi_m - \Phi_h =$	°	$Y_2 =$	(m)	* 2 =	
$\Delta\Phi = (\Phi_m - \Phi_h)/4$	°	$Y_3 =$	(m)	* 4 =	
		$Y_4 =$	(m)	* 1 =	
				$\Sigma =$	
$AREA = \Delta\Phi * \Sigma * 1/3 * \pi / 180 =$					m*rad

13 Capacity table of cargo holds

COMPARTMENT	FRAME NO.	CAPACITY OF COMPARTMENT (m ³)			CENTER OF GRAVITY FULL COMPARTMENT END TRIMMED (m)		CENTER OF GRAVITY FULL COMPARTMENT END UNTRIMMED (m) *)	
		100%	GRAIN END TRIMMED	GRAIN END UN-TRIMMED *)	X _G	Z _G	X _G	Z _G
NO.1 CARGO HOLD	140-177	6266,5	6124,58	5943,47	123,58	7,58	123,55	7,58
NO.2 CARGO HOLD	103-140	7856,06	7686,16	7515,44	95,70	7,41	95,67	7,41
NO.3 CARGO HOLD	66-103	7870,30	7700,40	7529,68	66,11	7,4	66,09	7,40
NO.4 CARGO HOLD	30-66	7261,26	7099,28	6953,88	37,22	7,64	37,22	7,64
TOTAL		29254,12	28610,42	27942,47	79,20	7,50	79,20	7,50

14 Summary table of heeling moments for filled holds

CARGO HOLD	PART	LENGHT OF PART (m)	VOLUME OF VOID SPACE (m ³)		VOLUMETRIC HEELING MOMENT (m ⁴)	
			END TRIMMED	END UN-TRIMMED *)	END TRIMMED INCLINATION 15°	END UNTRIMMED INCLINATION 25° *)
NO.1 CARGO HOLD	END FORE	4,8	29,71	112,76	115,01	269,02
	HATCH	20	64,64	64,64	371,70	371,70
	END AFT	4,8	47,52	145,58	273,60	644,76
	TOTAL		141,87	322,98	760,31	1285,48
NO.2 CARGO HOLD	END FORE	4	39,6	112,26	227,92	483,35
	HATCH	20,8	82,78	82,78	574,70	574,70
	END AFT	4,8	47,52	145,58	273,60	644,76
	TOTAL		169,9	340,62	1076,22	1702,81
NO.3 CARGO HOLD	END FORE	4	39,6	112,26	227,92	483,35
	HATCH	20,8	82,78	82,78	574,70	574,70
	END AFT	4,8	47,52	145,58	273,50	644,76
	TOTAL		169,9	340,62	1076,12	1702,81
NO.4 CARGO HOLD	END FORE	4	39,60	112,26	227,92	483,35
	HATCH	20,8	82,78	82,78	574,70	574,70
	END AFT	4	39,6	112,34	227,92	483,82
	TOTAL		161,98	307,38	1030,54	1541,87

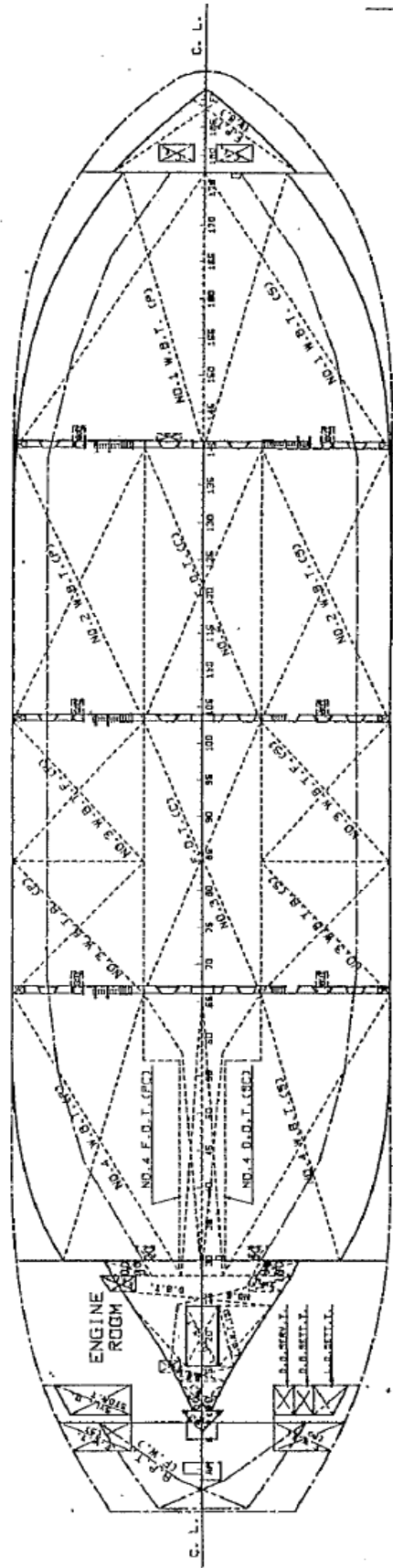
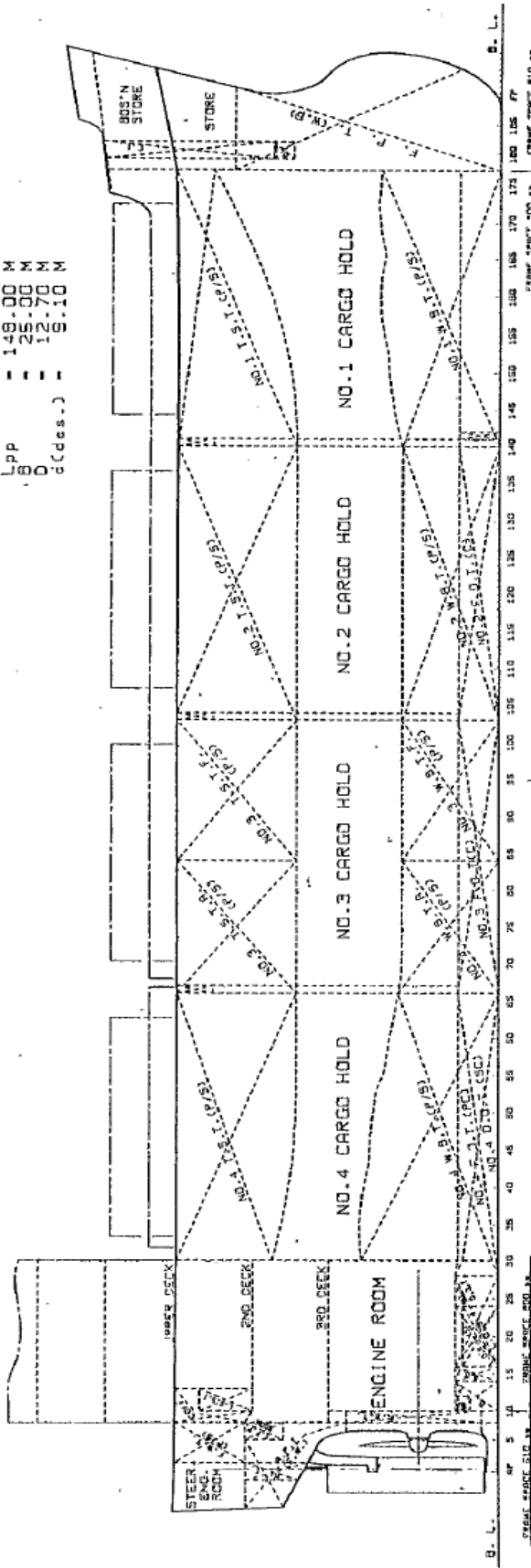
*) According to IMO MSC / Circ. 323 „Dispensation from Trimming Ends on Holds in certain Ships“ these data shall be used for cargo holds specified when the hold is filled to the top of the main deck coaming with the ends untrimmed.

15 Tank arrangement

SH-1030

TANK ARRANGEMENT

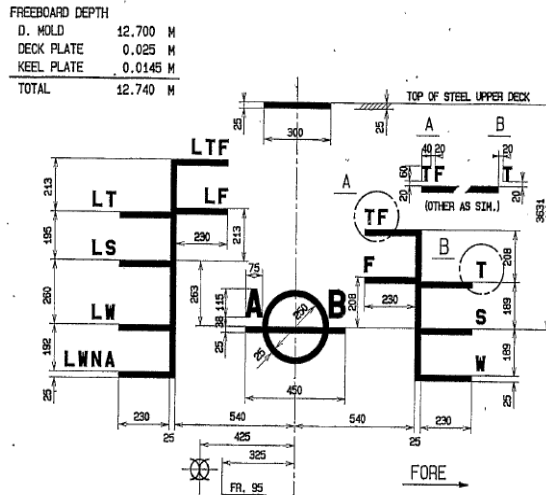
LPP = 148.00 M
 O = 25.00 M
 d (des.) = 12.70 M
 d (des.) = 9.10 M



16 Capacity table of tanks

TANK NAME	Volume (m³)	ρ (t/m³)	x_G (m)	y_G (m)	z_G (m)	i_{b_max} (m⁴)
FRESH WATER TANKS	100% FULL					
FRESH WATER TANK (P)	34,68	1,000	2,93	6,25	11,67	25
FRESH WATER TANK (S)	34,68	1,000	2,93	-6,25	11,67	25
AFT PEAK TANK (FRESH WATER)	116,84	1,000	1,54	0,01	9,01	837
FUEL OIL TANKS	96% FULL					
NO.2 FUEL OIL TANK (C)	351,07	0,990	95,3	0	0,77	1171
NO.3 FUEL OIL TANK (C)	351,07	0,990	65,7	0	0,77	1171
NO.4 FUEL OIL TANK (PC)	96,58	0,990	38,83	1,29	0,77	65
DIESEL OIL TANKS	96% FULL					
NO.4 DIESEL OIL TANK (SC)	96,58	0,900	38,83	-1,29	0,77	65
NO.5 DIESEL OIL TANK	54,91	0,900	17,79	0,82	0,91	267
WATER BALLAST TANKS	100% FULL					
FORE PEAK TANK	547,85	1,025	143,36	0	5,35	380
NO.1 WATER BALLAST TANK (P)	489,69	1,025	123,39	5,43	1,23	2532
NO.1 WATER BALLAST TANK (S)	489,69	1,025	123,39	-5,43	1,23	2532
NO.2 WATER BALLAST TANK (P)	448,97	1,025	95,25	8,62	1,06	1517
NO.2 WATER BALLAST TANK (S)	448,97	1,025	95,25	-8,62	1,06	1517
NO.3 WATER BALLAST TANK FWD (P)	236,06	1,025	72,9	8,62	1,06	806
NO.3 WATER BALLAST TANK FWD (S)	236,06	1,025	72,9	-8,62	1,06	806
NO.3 WATER BALLAST TANK AFT (P)	216,94	1,025	58,25	8,65	1,06	734
NO.3 WATER BALLAST TANK AFT (S)	216,94	1,025	58,25	-8,65	1,06	734
NO.4 WATER BALLAST TANK (P)	469,49	1,025	36,48	7	1,46	1771
NO.4 WATER BALLAST TANK (S)	469,49	1,025	36,48	-7	1,46	1771
NO.1 T.S.T. (P)	316,25	1,025	122,54	9,58	11,3	393
NO.1 T.S.T. (S)	316,25	1,025	122,54	-9,58	11,3	393
NO.2 T.S.T. (P)	399,21	1,025	95,39	10,81	10,86	129
NO.2 T.S.T. (S)	399,21	1,025	95,39	-10,81	10,86	129
NO.3 T.S.T. FWD (P)	203,63	1,025	72,99	10,81	10,86	66
NO.3 T.S.T. FWD (S)	203,63	1,025	72,99	-10,81	10,86	66
NO.3 T.S.T. AFT (P)	192,76	1,025	58,19	10,81	10,86	63
NO.3 T.S.T. AFT (S)	192,76	1,025	58,19	-10,81	10,86	63
NO.4 T.S.T. (P)	366,80	1,025	37,21	10,73	10,92	122
NO.4 T.S.T. (S)	366,80	1,025	37,21	-10,73	10,92	122

17 Freeboard tables



GENERAL CARGO

LOAD LINE	Freeboard (m)	Draught (m)	Displacement (t)	Deadweight (t)
Summer	3,631	9,109	27254	21712
Winter	3,820	8,920	26634	21101
Tropical	3,442	9,298	27876	22324
Fresh Water	3,423	9,317	27254	21712
Tropical Fresh water	3,234	9,506	27876	22324

LUMBER CARGO

LOAD LINE	Freeboard (m)	Draught (m)	Displacement (t)	Deadweight (t)
Summer	3,368	9,372	28121	22565
Winter	3,628	9,112	27263	21720
Winter North Atlantic	3,820	8,920	26634	21101
Tropical	3,173	9,567	28768	23202
Fresh Water	3,155	9,585	28121	22565
Tropical Fresh water	2,960	9,780	28768	23202

18 Arrangement of draught marks

X1	6,100 m	
X2	74,000 m	
X3	146,010 m	

19 Hydrostatics

M/V „Dorthe Oldendorff“

Hydrostatics

T _{KC} (m)	DISPV (m ³)	DISPM (t)	TPC (t/cm)	M _{TM} (tm/m)	x _B (m)	x _F (m)	KM (m)	C _w	C _B
1,50	3836,24	3932,14	28,25	22075,38	78,63	78,49	31,47	0,7450	0,6907
1,52	3891,29	3988,58	28,28	22127,23	78,63	78,49	31,11	0,7457	0,6914
1,54	3946,43	4045,09	28,31	22178,20	78,63	78,48	30,76	0,7465	0,6921
1,56	4001,63	4101,67	28,34	22228,29	78,62	78,47	30,42	0,7472	0,6928
1,58	4056,91	4158,33	28,37	22277,54	78,62	78,46	30,08	0,7479	0,6935
1,60	4112,26	4215,06	28,39	22325,96	78,62	78,46	29,75	0,7487	0,6942
1,62	4167,67	4271,86	28,42	22373,57	78,62	78,45	29,43	0,7494	0,6949
1,64	4223,15	4328,73	28,45	22420,40	78,62	78,44	29,11	0,7501	0,6955
1,66	4278,70	4385,67	28,48	22466,48	78,61	78,44	28,80	0,7508	0,6962
1,68	4334,31	4442,67	28,50	22511,81	78,61	78,43	28,49	0,7515	0,6969
1,70	4389,98	4499,73	28,53	22556,42	78,61	78,43	28,20	0,7521	0,6975
1,72	4445,71	4556,85	28,56	22600,33	78,61	78,42	27,91	0,7528	0,6981
1,74	4501,50	4614,04	28,58	22643,56	78,61	78,42	27,62	0,7535	0,6988
1,76	4557,34	4671,28	28,61	22686,13	78,60	78,41	27,34	0,7541	0,6994
1,78	4613,25	4728,58	28,63	22728,06	78,60	78,41	27,07	0,7547	0,7000
1,80	4669,20	4785,93	28,66	22769,36	78,60	78,40	26,80	0,7554	0,7007
1,82	4725,21	4843,34	28,68	22810,06	78,60	78,40	26,54	0,7560	0,7013
1,84	4781,28	4900,81	28,70	22850,16	78,59	78,39	26,28	0,7566	0,7019
1,86	4837,39	4958,33	28,73	22889,69	78,59	78,39	26,03	0,7572	0,7025
1,88	4893,55	5015,89	28,75	22928,66	78,59	78,38	25,78	0,7578	0,7031
1,90	4949,77	5073,51	28,77	22967,09	78,59	78,38	25,54	0,7584	0,7036
1,92	5006,03	5131,18	28,79	23004,99	78,58	78,37	25,30	0,7590	0,7042
1,94	5062,33	5188,89	28,82	23042,38	78,58	78,37	25,07	0,7596	0,7048
1,96	5118,69	5246,65	28,84	23079,28	78,58	78,37	24,84	0,7602	0,7054
1,98	5175,08	5304,46	28,86	23115,69	78,58	78,36	24,62	0,7608	0,7059
2,00	5231,52	5362,31	28,88	23151,63	78,58	78,36	24,40	0,7613	0,7065
2,02	5288,01	5420,21	28,90	23187,12	78,57	78,35	24,19	0,7619	0,7070
2,04	5344,53	5478,15	28,92	23222,17	78,57	78,35	23,98	0,7624	0,7076
2,06	5401,10	5536,13	28,94	23256,79	78,57	78,35	23,77	0,7630	0,7081
2,08	5457,71	5594,15	28,96	23290,99	78,57	78,34	23,57	0,7635	0,7087
2,10	5514,36	5652,22	28,98	23324,79	78,56	78,34	23,37	0,7640	0,7092
2,12	5571,04	5710,32	29,00	23358,19	78,56	78,33	23,18	0,7645	0,7097
2,14	5627,77	5768,46	29,02	23391,21	78,56	78,33	22,99	0,7651	0,7102
2,16	5684,53	5826,64	29,04	23423,87	78,56	78,32	22,80	0,7656	0,7107
2,18	5741,33	5884,86	29,06	23456,16	78,55	78,32	22,62	0,7661	0,7113
2,20	5798,16	5943,12	29,07	23488,10	78,55	78,32	22,44	0,7666	0,7118
2,22	5855,03	6001,41	29,09	23519,71	78,55	78,31	22,26	0,7671	0,7123
2,24	5911,94	6059,73	29,11	23550,98	78,55	78,31	22,09	0,7675	0,7128
2,26	5968,87	6118,10	29,13	23581,94	78,54	78,30	21,92	0,7680	0,7133
2,28	6025,85	6176,49	29,15	23612,59	78,54	78,30	21,76	0,7685	0,7137
2,30	6082,85	6234,92	29,16	23642,93	78,54	78,29	21,59	0,7690	0,7142
2,32	6139,89	6293,39	29,18	23672,98	78,54	78,29	21,43	0,7694	0,7147
2,34	6196,96	6351,89	29,20	23702,75	78,53	78,29	21,27	0,7699	0,7152
2,36	6254,06	6410,42	29,21	23732,24	78,53	78,28	21,12	0,7703	0,7156
2,38	6311,20	6468,98	29,23	23761,46	78,53	78,28	20,97	0,7708	0,7161
2,40	6368,36	6527,57	29,25	23790,42	78,53	78,27	20,82	0,7712	0,7166
2,42	6425,56	6586,20	29,26	23819,12	78,52	78,27	20,67	0,7716	0,7170
2,44	6482,78	6644,85	29,28	23847,58	78,52	78,26	20,53	0,7721	0,7175
2,46	6540,03	6703,54	29,29	23875,79	78,52	78,26	20,39	0,7725	0,7179
2,48	6597,32	6762,25	29,31	23903,78	78,52	78,25	20,25	0,7729	0,7184
2,50	6654,63	6820,99	29,33	23931,53	78,51	78,25	20,11	0,7733	0,7188
2,52	6711,97	6879,77	29,34	23959,06	78,51	78,24	19,98	0,7738	0,7192

M/V „Dorthe Oldendorff“

Hydrostatics

T_{KC} (m)	DISPV (m³)	DISPM (t)	TPC (t/cm)	M_{TM} (tm/m)	x_B (m)	x_F (m)	KM (m)	C_W	C_B
2,54	6769,34	6938,57	29,36	23986,38	78,51	78,24	19,85	0,7742	0,7197
2,56	6826,73	6997,40	29,37	24013,48	78,51	78,23	19,72	0,7746	0,7201
2,58	6884,15	7056,26	29,39	24040,38	78,50	78,23	19,59	0,7750	0,7205
2,60	6941,60	7115,14	29,40	24067,08	78,50	78,22	19,47	0,7754	0,7210
2,62	6999,08	7174,06	29,42	24093,59	78,50	78,22	19,34	0,7757	0,7214
2,64	7056,58	7233,00	29,43	24119,90	78,50	78,21	19,22	0,7761	0,7218
2,66	7114,11	7291,97	29,44	24146,03	78,49	78,21	19,11	0,7765	0,7222
2,68	7171,67	7350,96	29,46	24171,97	78,49	78,20	18,99	0,7769	0,7226
2,70	7229,25	7409,98	29,47	24197,74	78,49	78,19	18,87	0,7773	0,7230
2,72	7286,85	7469,03	29,49	24223,33	78,49	78,19	18,76	0,7776	0,7234
2,74	7344,49	7528,10	29,50	24248,75	78,48	78,18	18,65	0,7780	0,7238
2,76	7402,14	7587,20	29,51	24274,01	78,48	78,18	18,54	0,7784	0,7242
2,78	7459,82	7646,32	29,53	24299,10	78,48	78,17	18,43	0,7787	0,7246
2,80	7517,53	7705,47	29,54	24324,03	78,48	78,16	18,33	0,7791	0,7250
2,82	7575,26	7764,64	29,55	24348,81	78,47	78,16	18,22	0,7794	0,7254
2,84	7633,01	7823,84	29,57	24373,43	78,47	78,15	18,12	0,7798	0,7258
2,86	7690,79	7883,06	29,58	24397,89	78,47	78,15	18,02	0,7801	0,7261
2,88	7748,59	7942,31	29,59	24422,21	78,47	78,14	17,92	0,7805	0,7265
2,90	7806,42	8001,58	29,61	24446,38	78,46	78,13	17,82	0,7808	0,7269
2,92	7864,27	8060,87	29,62	24470,41	78,46	78,13	17,72	0,7811	0,7273
2,94	7922,14	8120,19	29,63	24494,30	78,46	78,12	17,63	0,7815	0,7276
2,96	7980,04	8179,54	29,65	24518,04	78,46	78,11	17,53	0,7818	0,7280
2,98	8037,95	8238,90	29,66	24541,64	78,45	78,11	17,44	0,7821	0,7284
3,00	8095,90	8298,29	29,67	24565,11	78,45	78,10	17,35	0,7824	0,7287
3,02	8153,86	8357,71	29,68	24588,45	78,45	78,09	17,26	0,7828	0,7291
3,04	8211,85	8417,14	29,70	24611,65	78,44	78,09	17,17	0,7831	0,7294
3,06	8269,86	8476,60	29,71	24634,71	78,44	78,08	17,09	0,7834	0,7298
3,08	8327,89	8536,08	29,72	24657,65	78,44	78,07	17,00	0,7837	0,7301
3,10	8385,94	8595,59	29,73	24680,45	78,44	78,06	16,91	0,7840	0,7305
3,12	8444,02	8655,12	29,74	24703,13	78,43	78,06	16,83	0,7843	0,7308
3,14	8502,11	8714,67	29,75	24725,68	78,43	78,05	16,75	0,7846	0,7312
3,16	8560,23	8774,24	29,77	24748,10	78,43	78,04	16,67	0,7849	0,7315
3,18	8618,37	8833,83	29,78	24770,40	78,43	78,03	16,59	0,7852	0,7318
3,20	8676,54	8893,45	29,79	24792,57	78,42	78,03	16,51	0,7855	0,7322
3,22	8734,72	8953,09	29,80	24814,61	78,42	78,02	16,43	0,7858	0,7325
3,24	8792,93	9012,75	29,81	24836,54	78,42	78,01	16,35	0,7861	0,7328
3,26	8851,15	9072,43	29,82	24858,33	78,42	78,00	16,28	0,7864	0,7332
3,28	8909,40	9132,14	29,83	24880,01	78,41	78,00	16,20	0,7867	0,7335
3,30	8967,67	9191,86	29,85	24901,56	78,41	77,99	16,13	0,7870	0,7338
3,32	9025,96	9251,61	29,86	24922,99	78,41	77,98	16,05	0,7873	0,7341
3,34	9084,27	9311,38	29,87	24944,29	78,41	77,97	15,98	0,7875	0,7344
3,36	9142,60	9371,17	29,88	24965,48	78,40	77,97	15,91	0,7878	0,7348
3,38	9200,96	9430,98	29,89	24986,54	78,40	77,96	15,84	0,7881	0,7351
3,40	9259,33	9490,81	29,90	25007,48	78,40	77,95	15,77	0,7884	0,7354
3,42	9317,72	9550,67	29,91	25028,29	78,39	77,94	15,70	0,7886	0,7357
3,44	9376,14	9610,54	29,92	25048,99	78,39	77,93	15,63	0,7889	0,7360
3,46	9434,57	9670,43	29,93	25069,56	78,39	77,93	15,57	0,7892	0,7363
3,48	9493,02	9730,35	29,94	25090,01	78,39	77,92	15,50	0,7894	0,7366
3,50	9551,50	9790,29	29,95	25110,34	78,38	77,91	15,44	0,7897	0,7369
3,52	9609,99	9850,24	29,96	25130,54	78,38	77,90	15,37	0,7900	0,7372
3,54	9668,51	9910,22	29,97	25150,63	78,38	77,89	15,31	0,7902	0,7375
3,56	9727,04	9970,22	29,98	25170,59	78,37	77,88	15,24	0,7905	0,7378
3,58	9785,60	10030,24	29,99	25190,42	78,37	77,88	15,18	0,7907	0,7381
3,60	9844,17	10090,28	30,00	25210,13	78,37	77,87	15,12	0,7910	0,7384
3,62	9902,77	10150,33	30,01	25229,72	78,37	77,86	15,06	0,7912	0,7387

M/V „Dorthe Oldendorff“

M/V „Dorthe Oldendorff“								Hydrostatics	
T _{KC}	DISPV	DISPM	TPC	M _{TM}	X _B	X _F	KM	C _W	C _B
(m)	(m ³)	(t)	(t/cm)	(tm/m)	(m)	(m)	(m)		
3,64	9961,38	10210,41	30,02	25249,19	78,36	77,85	15,00	0,7915	0,7390
3,66	10020,01	10270,51	30,03	25268,53	78,36	77,84	14,94	0,7917	0,7393
3,68	10078,66	10330,63	30,04	25287,74	78,36	77,83	14,88	0,7920	0,7395
3,70	10137,33	10390,77	30,05	25306,83	78,35	77,82	14,82	0,7922	0,7398
3,72	10196,02	10450,92	30,06	25325,80	78,35	77,82	14,77	0,7925	0,7401
3,74	10254,73	10511,10	30,07	25344,64	78,35	77,81	14,71	0,7927	0,7404
3,76	10313,46	10571,30	30,08	25363,35	78,35	77,80	14,65	0,7930	0,7407
3,78	10372,21	10631,51	30,09	25381,94	78,34	77,79	14,60	0,7932	0,7409
3,80	10430,97	10691,75	30,10	25400,40	78,34	77,78	14,54	0,7934	0,7412
3,82	10489,76	10752,00	30,11	25418,73	78,34	77,77	14,49	0,7937	0,7415
3,84	10548,56	10812,27	30,12	25436,94	78,33	77,76	14,44	0,7939	0,7418
3,86	10607,38	10872,56	30,12	25455,02	78,33	77,75	14,38	0,7942	0,7420
3,88	10666,22	10932,87	30,13	25472,97	78,33	77,75	14,33	0,7944	0,7423
3,90	10725,08	10993,20	30,14	25490,80	78,32	77,74	14,28	0,7946	0,7426
3,92	10783,95	11053,55	30,15	25508,50	78,32	77,73	14,23	0,7948	0,7428
3,94	10842,84	11113,92	30,16	25526,07	78,32	77,72	14,18	0,7951	0,7431
3,96	10901,76	11174,30	30,17	25543,51	78,32	77,71	14,13	0,7953	0,7434
3,98	10960,68	11234,70	30,18	25560,82	78,31	77,70	14,08	0,7955	0,7436
4,00	11019,63	11295,12	30,19	25578,00	78,31	77,69	14,03	0,7957	0,7439
4,02	11078,60	11355,56	30,19	25595,06	78,31	77,68	13,98	0,7960	0,7441
4,04	11137,58	11416,02	30,20	25611,98	78,30	77,67	13,93	0,7962	0,7444
4,06	11196,58	11476,49	30,21	25628,78	78,30	77,66	13,89	0,7964	0,7447
4,08	11255,59	11536,98	30,22	25645,45	78,30	77,66	13,84	0,7966	0,7449
4,10	11314,63	11597,49	30,23	25661,99	78,29	77,65	13,79	0,7968	0,7452
4,12	11373,68	11658,02	30,24	25678,41	78,29	77,64	13,75	0,7970	0,7454
4,14	11432,75	11718,56	30,24	25694,69	78,29	77,63	13,70	0,7973	0,7457
4,16	11491,83	11779,13	30,25	25710,85	78,28	77,62	13,66	0,7975	0,7459
4,18	11550,93	11839,70	30,26	25726,88	78,28	77,61	13,61	0,7977	0,7462
4,20	11610,05	11900,30	30,27	25742,78	78,28	77,60	13,57	0,7979	0,7464
4,22	11669,18	11960,91	30,27	25758,56	78,27	77,59	13,53	0,7981	0,7467
4,24	11728,33	12021,54	30,28	25774,21	78,27	77,58	13,48	0,7983	0,7469
4,26	11787,50	12082,19	30,29	25789,73	78,27	77,57	13,44	0,7985	0,7471
4,28	11846,68	12142,85	30,30	25805,13	78,26	77,56	13,40	0,7987	0,7474
4,30	11905,88	12203,53	30,30	25820,40	78,26	77,55	13,36	0,7989	0,7476
4,32	11965,09	12264,22	30,31	25835,55	78,26	77,54	13,32	0,7991	0,7479
4,34	12024,32	12324,93	30,32	25850,57	78,25	77,53	13,27	0,7993	0,7481
4,36	12083,57	12385,66	30,33	25865,47	78,25	77,53	13,23	0,7995	0,7483
4,38	12142,83	12446,40	30,33	25880,25	78,25	77,52	13,19	0,7997	0,7486
4,40	12202,11	12507,16	30,34	25894,90	78,24	77,51	13,16	0,7999	0,7488
4,42	12261,40	12567,94	30,35	25909,44	78,24	77,50	13,12	0,8001	0,7490
4,44	12320,71	12628,73	30,36	25923,86	78,23	77,49	13,08	0,8003	0,7493
4,46	12380,03	12689,53	30,36	25938,15	78,23	77,48	13,04	0,8005	0,7495
4,48	12439,37	12750,35	30,37	25952,33	78,23	77,47	13,00	0,8007	0,7497
4,50	12498,72	12811,19	30,38	25966,39	78,22	77,46	12,97	0,8008	0,7500
4,52	12558,09	12872,04	30,38	25980,34	78,22	77,45	12,93	0,8010	0,7502
4,54	12617,47	12932,90	30,39	25994,17	78,22	77,44	12,89	0,8012	0,7504
4,56	12676,86	12993,78	30,40	26007,89	78,21	77,43	12,86	0,8014	0,7506
4,58	12736,27	13054,68	30,40	26021,50	78,21	77,42	12,82	0,8016	0,7509
4,60	12795,70	13115,59	30,41	26035,00	78,21	77,41	12,79	0,8018	0,7511
4,62	12855,13	13176,51	30,42	26048,39	78,20	77,40	12,75	0,8020	0,7513
4,64	12914,59	13237,45	30,42	26061,68	78,20	77,39	12,72	0,8021	0,7515
4,66	12974,05	13298,40	30,43	26074,85	78,19	77,38	12,68	0,8023	0,7517
4,68	13033,53	13359,37	30,44	26087,93	78,19	77,37	12,65	0,8025	0,7520
4,70	13093,02	13420,35	30,44	26100,90	78,19	77,36	12,62	0,8027	0,7522
4,72	13152,53	13481,34	30,45	26113,77	78,18	77,35	12,58	0,8028	0,7524

M/V „Dorthe Oldendorff“

T _{KC} (m)	DISPV (m ³)	DISPM (t)	TPC (t/cm)	M _{TM} (tm/m)	x _B (m)	x _F (m)	KM (m)	Hydrostatics	
								C _W	C _B
4,74	13212,05	13542,35	30,46	26126,55	78,18	77,34	12,55	0,8030	0,7526
4,76	13271,59	13603,37	30,46	26139,22	78,17	77,33	12,52	0,8032	0,7528
4,78	13331,13	13664,41	30,47	26151,81	78,17	77,32	12,49	0,8034	0,7530
4,80	13390,69	13725,46	30,47	26164,30	78,17	77,31	12,45	0,8035	0,7532
4,82	13450,26	13786,52	30,48	26176,70	78,16	77,30	12,42	0,8037	0,7535
4,84	13509,85	13847,60	30,49	26189,01	78,16	77,29	12,39	0,8039	0,7537
4,86	13569,45	13908,68	30,49	26201,24	78,16	77,28	12,36	0,8040	0,7539
4,88	13629,06	13969,78	30,50	26213,39	78,15	77,27	12,33	0,8042	0,7541
4,90	13688,68	14030,90	30,50	26225,45	78,15	77,25	12,30	0,8044	0,7543
4,92	13748,32	14092,03	30,51	26237,44	78,14	77,24	12,27	0,8045	0,7545
4,94	13807,97	14153,16	30,52	26249,35	78,14	77,23	12,24	0,8047	0,7547
4,96	13867,63	14214,32	30,52	26261,19	78,14	77,22	12,22	0,8049	0,7549
4,98	13927,30	14275,48	30,53	26272,96	78,13	77,21	12,19	0,8050	0,7551
5,00	13986,98	14336,66	30,53	26284,66	78,13	77,20	12,16	0,8052	0,7553
5,02	14046,68	14397,85	30,54	26296,29	78,12	77,19	12,13	0,8053	0,7555
5,04	14106,39	14459,05	30,55	26307,87	78,12	77,18	12,10	0,8055	0,7557
5,06	14166,11	14520,26	30,55	26319,38	78,11	77,17	12,08	0,8057	0,7559
5,08	14225,84	14581,48	30,56	26330,84	78,11	77,16	12,05	0,8058	0,7561
5,10	14285,58	14642,72	30,56	26342,25	78,11	77,14	12,02	0,8060	0,7563
5,12	14345,33	14703,97	30,57	26353,61	78,10	77,13	12,00	0,8061	0,7565
5,14	14405,10	14765,23	30,57	26364,92	78,10	77,12	11,97	0,8063	0,7567
5,16	14464,88	14826,50	30,58	26376,19	78,09	77,11	11,95	0,8064	0,7569
5,18	14524,67	14887,78	30,59	26387,41	78,09	77,10	11,92	0,8066	0,7571
5,20	14584,47	14949,08	30,59	26398,61	78,08	77,09	11,90	0,8068	0,7573
5,22	14644,28	15010,38	30,60	26409,77	78,08	77,07	11,87	0,8069	0,7575
5,24	14704,10	15071,70	30,60	26420,89	78,08	77,06	11,85	0,8071	0,7577
5,26	14763,93	15133,03	30,61	26432,00	78,07	77,05	11,82	0,8072	0,7578
5,28	14823,77	15194,37	30,61	26443,08	78,07	77,04	11,80	0,8074	0,7580
5,30	14883,63	15255,72	30,62	26454,14	78,06	77,02	11,78	0,8075	0,7582
5,32	14943,49	15317,08	30,62	26465,19	78,06	77,01	11,75	0,8077	0,7584
5,34	15003,37	15378,45	30,63	26476,23	78,05	77,00	11,73	0,8078	0,7586
5,36	15063,25	15439,84	30,63	26487,26	78,05	76,99	11,71	0,8080	0,7588
5,38	15123,15	15501,23	30,64	26498,28	78,05	76,97	11,68	0,8081	0,7590
5,40	15183,06	15562,63	30,65	26509,31	78,04	76,96	11,66	0,8083	0,7591
5,42	15242,98	15624,05	30,65	26520,34	78,04	76,95	11,64	0,8084	0,7593
5,44	15302,90	15685,48	30,66	26531,38	78,03	76,94	11,62	0,8086	0,7595
5,46	15362,84	15746,91	30,66	26542,43	78,03	76,92	11,60	0,8087	0,7597
5,48	15422,79	15808,36	30,67	26553,50	78,02	76,91	11,58	0,8089	0,7599
5,50	15482,75	15869,82	30,67	26564,59	78,02	76,90	11,56	0,8090	0,7601
5,52	15542,72	15931,29	30,68	26575,71	78,01	76,88	11,54	0,8091	0,7602
5,54	15602,70	15992,77	30,68	26586,85	78,01	76,87	11,51	0,8093	0,7604
5,56	15662,69	16054,26	30,69	26598,03	78,00	76,85	11,49	0,8094	0,7606
5,58	15722,69	16115,76	30,69	26609,25	78,00	76,84	11,48	0,8096	0,7608
5,60	15782,70	16177,27	30,70	26620,51	78,00	76,83	11,46	0,8097	0,7609
5,62	15842,72	16238,79	30,71	26631,81	77,99	76,81	11,44	0,8099	0,7611
5,64	15902,75	16300,32	30,71	26643,17	77,99	76,80	11,42	0,8100	0,7613
5,66	15962,79	16361,86	30,72	26654,58	77,98	76,78	11,40	0,8102	0,7615
5,68	16022,85	16423,42	30,72	26666,05	77,98	76,77	11,38	0,8103	0,7616
5,70	16082,91	16484,98	30,73	26677,59	77,97	76,75	11,36	0,8105	0,7618
5,72	16142,98	16546,55	30,73	26689,20	77,97	76,74	11,34	0,8106	0,7620
5,74	16203,06	16608,14	30,74	26700,88	77,96	76,72	11,32	0,8108	0,7622
5,76	16263,15	16669,73	30,74	26712,64	77,96	76,71	11,31	0,8109	0,7623
5,78	16323,26	16731,34	30,75	26724,48	77,95	76,69	11,29	0,8111	0,7625
5,80	16383,37	16792,95	30,76	26736,41	77,95	76,68	11,27	0,8112	0,7627
5,82	16443,49	16854,58	30,76	26748,44	77,94	76,66	11,25	0,8114	0,7628

M/V „Dorthe Oldendorff“

T_{KC} (m)	DISPV (m³)	DISPM (t)	TPC (t/cm)	M_{TM} (tm/m)	x_B (m)	x_F (m)	KM (m)	Hydrostatics	
								C_W	C_B
5,84	16503,63	16916,22	30,77	26760,56	77,94	76,65	11,24	0,8115	0,7630
5,86	16563,77	16977,86	30,77	26772,78	77,93	76,63	11,22	0,8117	0,7632
5,88	16623,92	17039,52	30,78	26785,11	77,93	76,61	11,20	0,8118	0,7633
5,90	16684,09	17101,19	30,78	26797,55	77,92	76,60	11,19	0,8120	0,7635
5,92	16744,26	17162,87	30,79	26810,11	77,92	76,58	11,17	0,8121	0,7637
5,94	16804,45	17224,56	30,80	26822,79	77,91	76,57	11,16	0,8123	0,7638
5,96	16864,64	17286,26	30,80	26835,59	77,91	76,55	11,14	0,8124	0,7640
5,98	16924,85	17347,97	30,81	26848,52	77,90	76,53	11,12	0,8126	0,7641
6,00	16985,07	17409,69	30,81	26861,59	77,90	76,51	11,11	0,8127	0,7643
6,02	17045,30	17471,43	30,82	26874,81	77,89	76,50	11,09	0,8129	0,7645
6,04	17105,53	17533,17	30,83	26888,16	77,89	76,48	11,08	0,8130	0,7646
6,06	17165,78	17594,93	30,83	26901,67	77,88	76,46	11,06	0,8132	0,7648
6,08	17226,04	17656,70	30,84	26915,33	77,88	76,44	11,05	0,8134	0,7650
6,10	17286,32	17718,47	30,84	26929,15	77,87	76,43	11,03	0,8135	0,7651
6,12	17346,60	17780,26	30,85	26943,13	77,87	76,41	11,02	0,8137	0,7653
6,14	17406,89	17842,07	30,86	26957,29	77,86	76,39	11,01	0,8138	0,7654
6,16	17467,20	17903,88	30,86	26971,61	77,86	76,37	10,99	0,8140	0,7656
6,18	17527,52	17965,70	30,87	26986,12	77,85	76,35	10,98	0,8142	0,7657
6,20	17587,84	18027,54	30,88	27000,81	77,85	76,33	10,96	0,8143	0,7659
6,22	17648,18	18089,39	30,88	27015,69	77,84	76,31	10,95	0,8145	0,7661
6,24	17708,54	18151,25	30,89	27030,76	77,83	76,30	10,94	0,8147	0,7662
6,26	17768,90	18213,12	30,90	27046,03	77,83	76,28	10,92	0,8148	0,7664
6,28	17829,27	18275,01	30,90	27061,50	77,82	76,26	10,91	0,8150	0,7665
6,30	17889,66	18336,90	30,91	27077,17	77,82	76,24	10,90	0,8152	0,7667
6,32	17950,06	18398,81	30,92	27093,06	77,81	76,22	10,89	0,8154	0,7668
6,34	18010,47	18460,73	30,92	27109,17	77,81	76,20	10,87	0,8155	0,7670
6,36	18070,90	18522,67	30,93	27125,49	77,80	76,18	10,86	0,8157	0,7671
6,38	18131,33	18584,62	30,94	27142,05	77,80	76,16	10,85	0,8159	0,7673
6,40	18191,78	18646,58	30,94	27158,83	77,79	76,14	10,84	0,8161	0,7674
6,42	18252,25	18708,55	30,95	27175,84	77,79	76,11	10,82	0,8162	0,7676
6,44	18312,72	18770,54	30,96	27193,10	77,78	76,09	10,81	0,8164	0,7677
6,46	18373,21	18832,54	30,97	27210,59	77,77	76,07	10,80	0,8166	0,7679
6,48	18433,71	18894,56	30,97	27228,34	77,77	76,05	10,79	0,8168	0,7680
6,50	18494,23	18956,58	30,98	27246,34	77,76	76,03	10,78	0,8170	0,7682
6,52	18554,76	19018,63	30,99	27264,59	77,76	76,01	10,77	0,8172	0,7683
6,54	18615,30	19080,68	31,00	27283,10	77,75	75,99	10,76	0,8174	0,7685
6,56	18675,86	19142,76	31,00	27301,88	77,75	75,96	10,74	0,8176	0,7686
6,58	18736,43	19204,84	31,01	27320,93	77,74	75,94	10,73	0,8178	0,7688
6,60	18797,02	19266,94	31,02	27340,25	77,73	75,92	10,72	0,8180	0,7689
6,62	18857,62	19329,06	31,03	27359,84	77,73	75,90	10,71	0,8182	0,7691
6,64	18918,23	19391,19	31,04	27379,72	77,72	75,87	10,70	0,8184	0,7692
6,66	18978,86	19453,33	31,04	27399,88	77,72	75,85	10,69	0,8186	0,7694
6,68	19039,51	19515,49	31,05	27420,33	77,71	75,83	10,68	0,8188	0,7695
6,70	19100,17	19577,67	31,06	27441,07	77,70	75,80	10,67	0,8190	0,7697
6,72	19160,84	19639,86	31,07	27462,11	77,70	75,78	10,66	0,8193	0,7698
6,74	19221,53	19702,07	31,08	27483,45	77,69	75,76	10,65	0,8195	0,7700
6,76	19282,24	19764,30	31,09	27505,09	77,69	75,73	10,64	0,8197	0,7701
6,78	19342,96	19826,54	31,10	27527,03	77,68	75,71	10,63	0,8199	0,7703
6,80	19403,70	19888,80	31,11	27549,29	77,67	75,68	10,62	0,8201	0,7704
6,82	19464,46	19951,07	31,11	27571,86	77,67	75,66	10,61	0,8204	0,7706
6,84	19525,23	20013,36	31,12	27594,75	77,66	75,63	10,60	0,8206	0,7707
6,86	19586,02	20075,67	31,13	27617,95	77,66	75,61	10,59	0,8208	0,7708
6,88	19646,83	20138,00	31,14	27641,48	77,65	75,58	10,59	0,8211	0,7710
6,90	19707,65	20200,34	31,15	27665,34	77,64	75,56	10,58	0,8213	0,7711
6,92	19768,50	20262,71	31,16	27689,52	77,64	75,53	10,57	0,8216	0,7713

M/V „Dorthe Oldendorff“

T_{KC} (m)	DISPV (m³)	DISPM (t)	TPC (t/cm)	M_{TM} (tm/m)	x_B (m)	x_F (m)	KM (m)	Hydrostatics	
								C_W	C_B
6,94	19829,35	20325,09	31,17	27714,04	77,63	75,51	10,56	0,8218	0,7714
6,96	19890,23	20387,49	31,18	27738,89	77,62	75,48	10,55	0,8221	0,7716
6,98	19951,13	20449,91	31,19	27764,08	77,62	75,45	10,54	0,8223	0,7717
7,00	20012,04	20512,34	31,20	27789,60	77,61	75,43	10,53	0,8226	0,7719
7,02	20072,98	20574,80	31,21	27815,47	77,60	75,40	10,52	0,8228	0,7720
7,04	20133,93	20637,28	31,22	27841,69	77,60	75,38	10,52	0,8231	0,7721
7,06	20194,90	20699,77	31,23	27868,25	77,59	75,35	10,51	0,8234	0,7723
7,08	20255,89	20762,29	31,24	27895,16	77,58	75,32	10,50	0,8236	0,7724
7,10	20316,90	20824,83	31,25	27922,42	77,58	75,29	10,49	0,8239	0,7726
7,12	20377,93	20887,38	31,26	27950,03	77,57	75,27	10,48	0,8242	0,7727
7,14	20438,99	20949,96	31,27	27978,00	77,56	75,24	10,48	0,8244	0,7729
7,16	20500,06	21012,56	31,28	28006,33	77,56	75,21	10,47	0,8247	0,7730
7,18	20561,15	21075,18	31,30	28035,02	77,55	75,18	10,46	0,8250	0,7731
7,20	20622,26	21137,82	31,31	28064,06	77,54	75,16	10,45	0,8253	0,7733
7,22	20683,40	21200,48	31,32	28093,47	77,54	75,13	10,45	0,8256	0,7734
7,24	20744,55	21263,17	31,33	28123,24	77,53	75,10	10,44	0,8259	0,7736
7,26	20805,73	21325,88	31,34	28153,37	77,52	75,07	10,43	0,8262	0,7737
7,28	20866,93	21388,61	31,35	28183,87	77,52	75,04	10,43	0,8265	0,7739
7,30	20928,16	21451,36	31,36	28214,74	77,51	75,01	10,42	0,8268	0,7740
7,32	20989,40	21514,13	31,38	28245,97	77,50	74,99	10,41	0,8271	0,7741
7,34	21050,67	21576,93	31,39	28277,57	77,49	74,96	10,41	0,8274	0,7743
7,36	21111,96	21639,76	31,40	28309,54	77,49	74,93	10,40	0,8277	0,7744
7,38	21173,27	21702,60	31,41	28341,88	77,48	74,90	10,39	0,8280	0,7746
7,40	21234,61	21765,48	31,42	28374,59	77,47	74,87	10,39	0,8284	0,7747
7,42	21295,97	21828,37	31,44	28407,66	77,47	74,84	10,38	0,8287	0,7749
7,44	21357,36	21891,29	31,45	28441,11	77,46	74,81	10,37	0,8290	0,7750
7,46	21418,77	21954,24	31,46	28474,93	77,45	74,78	10,37	0,8294	0,7751
7,48	21480,20	22017,21	31,47	28509,12	77,44	74,75	10,36	0,8297	0,7753
7,50	21541,66	22080,20	31,49	28543,68	77,44	74,72	10,36	0,8300	0,7754
7,52	21603,15	22143,22	31,50	28578,60	77,43	74,69	10,35	0,8304	0,7756
7,54	21664,66	22206,27	31,51	28613,90	77,42	74,66	10,34	0,8307	0,7757
7,56	21726,19	22269,35	31,53	28649,56	77,41	74,63	10,34	0,8311	0,7759
7,58	21787,75	22332,45	31,54	28685,60	77,41	74,60	10,33	0,8314	0,7760
7,60	21849,34	22395,57	31,55	28722,00	77,40	74,57	10,33	0,8318	0,7762
7,62	21910,96	22458,73	31,57	28758,76	77,39	74,54	10,32	0,8321	0,7763
7,64	21972,60	22521,91	31,58	28795,89	77,38	74,51	10,32	0,8325	0,7764
7,66	22034,26	22585,12	31,59	28833,38	77,37	74,48	10,31	0,8329	0,7766
7,68	22095,96	22648,36	31,61	28871,24	77,37	74,44	10,31	0,8332	0,7767
7,70	22157,68	22711,62	31,62	28909,45	77,36	74,41	10,30	0,8336	0,7769
7,72	22219,43	22774,92	31,64	28948,03	77,35	74,38	10,30	0,8340	0,7770
7,74	22281,21	22838,24	31,65	28986,96	77,34	74,35	10,29	0,8344	0,7772
7,76	22343,02	22901,59	31,66	29026,24	77,33	74,32	10,29	0,8347	0,7773
7,78	22404,85	22964,97	31,68	29065,88	77,33	74,29	10,28	0,8351	0,7775
7,80	22466,72	23028,38	31,69	29105,87	77,32	74,26	10,28	0,8355	0,7776
7,82	22528,61	23091,83	31,71	29146,21	77,31	74,23	10,27	0,8359	0,7778
7,84	22590,53	23155,30	31,72	29186,90	77,30	74,19	10,27	0,8363	0,7779
7,86	22652,48	23218,80	31,74	29227,92	77,29	74,16	10,26	0,8367	0,7781
7,88	22714,47	23282,33	31,75	29269,29	77,29	74,13	10,26	0,8371	0,7782
7,90	22776,48	23345,89	31,77	29311,00	77,28	74,10	10,26	0,8375	0,7783
7,92	22838,52	23409,48	31,78	29353,04	77,27	74,07	10,25	0,8379	0,7785
7,94	22900,59	23473,10	31,80	29395,41	77,26	74,04	10,25	0,8383	0,7786
7,96	22962,69	23536,76	31,81	29438,12	77,25	74,00	10,24	0,8387	0,7788
7,98	23024,83	23600,45	31,83	29481,14	77,24	73,97	10,24	0,8392	0,7789
8,00	23086,99	23664,17	31,85	29524,49	77,23	73,94	10,24	0,8396	0,7791
8,02	23149,19	23727,92	31,86	29568,16	77,23	73,91	10,23	0,8400	0,7792

M/V „Dorthe Oldendorff“

Hydrostatics

T_{KC} (m)	DISPV (m³)	DISPM (t)	TPC (t/cm)	M_{TM} (tm/m)	X_B (m)	X_F (m)	KM (m)	C_W	C_B
8,04	23211,41	23791,70	31,88	29612,14	77,22	73,88	10,23	0,8404	0,7794
8,06	23273,67	23855,51	31,89	29656,43	77,21	73,84	10,23	0,8409	0,7795
8,08	23335,96	23919,36	31,91	29701,02	77,20	73,81	10,22	0,8413	0,7797
8,10	23398,29	23983,24	31,92	29745,92	77,19	73,78	10,22	0,8417	0,7798
8,12	23460,64	24047,16	31,94	29791,12	77,18	73,75	10,22	0,8422	0,7800
8,14	23523,03	24111,11	31,96	29836,60	77,17	73,72	10,22	0,8426	0,7801
8,16	23585,45	24175,09	31,97	29882,38	77,16	73,68	10,21	0,8431	0,7803
8,18	23647,91	24239,10	31,99	29928,44	77,16	73,65	10,21	0,8435	0,7805
8,20	23710,39	24303,15	32,01	29974,78	77,15	73,62	10,21	0,8439	0,7806
8,22	23772,92	24367,24	32,02	30021,39	77,14	73,59	10,21	0,8444	0,7808
8,24	23835,47	24431,36	32,04	30068,28	77,13	73,56	10,20	0,8448	0,7809
8,26	23898,06	24495,51	32,06	30115,42	77,12	73,52	10,20	0,8453	0,7811
8,28	23960,68	24559,70	32,07	30162,83	77,11	73,49	10,20	0,8458	0,7812
8,30	24023,34	24623,92	32,09	30210,49	77,10	73,46	10,20	0,8462	0,7814
8,32	24086,03	24688,18	32,11	30258,39	77,09	73,43	10,19	0,8467	0,7815
8,34	24148,75	24752,47	32,13	30306,54	77,08	73,40	10,19	0,8471	0,7817
8,36	24211,51	24816,80	32,14	30354,92	77,07	73,37	10,19	0,8476	0,7818
8,38	24274,30	24881,16	32,16	30403,54	77,06	73,33	10,19	0,8481	0,7820
8,40	24337,13	24945,56	32,18	30452,37	77,05	73,30	10,19	0,8485	0,7822
8,42	24400,00	25010,00	32,19	30501,43	77,04	73,27	10,19	0,8490	0,7823
8,44	24462,89	25074,47	32,21	30550,70	77,03	73,24	10,18	0,8495	0,7825
8,46	24525,83	25138,97	32,23	30600,17	77,03	73,21	10,18	0,8499	0,7826
8,48	24588,80	25203,52	32,25	30649,85	77,02	73,18	10,18	0,8504	0,7828
8,50	24651,80	25268,10	32,26	30699,71	77,01	73,15	10,18	0,8509	0,7829
8,52	24714,85	25332,72	32,28	30749,77	77,00	73,12	10,18	0,8514	0,7831
8,54	24777,92	25397,37	32,30	30800,00	76,99	73,09	10,18	0,8519	0,7833
8,56	24841,03	25462,06	32,32	30850,40	76,98	73,06	10,18	0,8523	0,7834
8,58	24904,18	25526,79	32,34	30900,98	76,97	73,02	10,18	0,8528	0,7836
8,60	24967,37	25591,55	32,35	30951,71	76,96	72,99	10,18	0,8533	0,7837
8,62	25030,59	25656,35	32,37	31002,59	76,95	72,96	10,18	0,8538	0,7839
8,64	25093,85	25721,19	32,39	31053,62	76,94	72,93	10,17	0,8543	0,7841
8,66	25157,14	25786,07	32,41	31104,79	76,93	72,90	10,17	0,8547	0,7842
8,68	25220,47	25850,98	32,43	31156,09	76,92	72,87	10,17	0,8552	0,7844
8,70	25283,84	25915,93	32,44	31207,52	76,91	72,84	10,17	0,8557	0,7846
8,72	25347,24	25980,92	32,46	31259,06	76,90	72,81	10,17	0,8562	0,7847
8,74	25410,68	26045,95	32,48	31310,71	76,89	72,79	10,17	0,8567	0,7849
8,76	25474,16	26111,01	32,50	31362,46	76,88	72,76	10,17	0,8572	0,7850
8,78	25537,67	26176,11	32,52	31414,31	76,87	72,73	10,17	0,8577	0,7852
8,80	25601,22	26241,25	32,54	31466,24	76,86	72,70	10,17	0,8581	0,7854
8,82	25664,81	26306,43	32,55	31518,26	76,85	72,67	10,17	0,8586	0,7855
8,84	25728,43	26371,64	32,57	31570,35	76,84	72,64	10,17	0,8591	0,7857
8,86	25792,09	26436,89	32,59	31622,50	76,83	72,61	10,17	0,8596	0,7859
8,88	25855,79	26502,18	32,61	31674,71	76,81	72,58	10,17	0,8601	0,7860
8,90	25919,52	26567,51	32,63	31726,97	76,80	72,56	10,18	0,8606	0,7862
8,92	25983,30	26632,88	32,65	31779,27	76,79	72,53	10,18	0,8611	0,7864
8,94	26047,10	26698,28	32,66	31831,61	76,78	72,50	10,18	0,8616	0,7865
8,96	26110,95	26763,72	32,68	31883,97	76,77	72,47	10,18	0,8620	0,7867
8,98	26174,83	26829,20	32,70	31936,35	76,76	72,45	10,18	0,8625	0,7869
9,00	26238,75	26894,72	32,72	31988,75	76,75	72,42	10,18	0,8630	0,7870
9,02	26302,71	26960,28	32,74	32041,15	76,74	72,39	10,18	0,8635	0,7872
9,04	26366,70	27025,87	32,76	32093,55	76,73	72,37	10,18	0,8640	0,7874
9,06	26430,73	27091,50	32,77	32145,93	76,72	72,34	10,18	0,8645	0,7875
9,08	26494,80	27157,17	32,79	32198,30	76,71	72,31	10,18	0,8649	0,7877
9,10	26558,90	27222,88	32,81	32250,65	76,70	72,29	10,18	0,8654	0,7879
9,12	26623,05	27288,62	32,83	32302,96	76,69	72,26	10,19	0,8659	0,7881

M/V „Dorthe Oldendorff“

Hydrostatics

T_{KC} (m)	DISPV (m³)	DISPM (t)	TPC (t/cm)	M_{TM} (tm/m)	x_B (m)	x_F (m)	KM (m)	C_w	C_B
9,14	26687,22	27354,40	32,85	32355,23	76,68	72,24	10,19	0,8664	0,7882
9,16	26751,44	27420,22	32,87	32407,45	76,67	72,21	10,19	0,8669	0,7884
9,18	26815,69	27486,08	32,88	32459,63	76,66	72,19	10,19	0,8673	0,7886
9,20	26879,98	27551,98	32,90	32511,74	76,65	72,16	10,19	0,8678	0,7887
9,22	26944,30	27617,91	32,92	32563,78	76,63	72,14	10,19	0,8683	0,7889
9,24	27008,66	27683,88	32,94	32615,74	76,62	72,11	10,19	0,8687	0,7891
9,26	27073,06	27749,89	32,96	32667,63	76,61	72,09	10,20	0,8692	0,7893
9,28	27137,49	27815,93	32,98	32719,43	76,60	72,07	10,20	0,8697	0,7894
9,30	27201,96	27882,01	32,99	32771,13	76,59	72,04	10,20	0,8702	0,7896
9,32	27266,47	27948,13	33,01	32822,73	76,58	72,02	10,20	0,8706	0,7898
9,34	27331,01	28014,29	33,03	32874,23	76,57	72,00	10,20	0,8711	0,7900
9,36	27395,59	28080,48	33,05	32925,61	76,56	71,98	10,21	0,8715	0,7901
9,38	27460,20	28146,71	33,07	32976,87	76,55	71,95	10,21	0,8720	0,7903
9,40	27524,85	28212,97	33,09	33028,00	76,54	71,93	10,21	0,8725	0,7905
9,42	27589,54	28279,28	33,10	33079,01	76,53	71,91	10,21	0,8729	0,7907
9,44	27654,26	28345,62	33,12	33129,88	76,52	71,89	10,21	0,8734	0,7908
9,46	27719,02	28411,99	33,14	33180,60	76,50	71,87	10,22	0,8738	0,7910
9,48	27783,81	28478,40	33,16	33231,18	76,49	71,85	10,22	0,8743	0,7912
9,50	27848,63	28544,85	33,18	33281,61	76,48	71,83	10,22	0,8747	0,7914
9,52	27913,50	28611,33	33,19	33331,88	76,47	71,81	10,22	0,8752	0,7915
9,54	27978,39	28677,85	33,21	33382,00	76,46	71,79	10,22	0,8756	0,7917
9,56	28043,32	28744,41	33,23	33431,94	76,45	71,77	10,23	0,8761	0,7919
9,58	28108,29	28811,00	33,25	33481,72	76,44	71,75	10,23	0,8765	0,7921
9,60	28173,29	28877,62	33,26	33531,33	76,43	71,73	10,23	0,8770	0,7923
9,62	28238,33	28944,29	33,28	33580,76	76,42	71,71	10,23	0,8774	0,7924
9,64	28303,40	29010,98	33,30	33630,01	76,41	71,69	10,24	0,8778	0,7926
9,66	28368,50	29077,71	33,32	33679,08	76,39	71,68	10,24	0,8783	0,7928
9,68	28433,64	29144,48	33,33	33727,97	76,38	71,66	10,24	0,8787	0,7930
9,70	28498,81	29211,28	33,35	33776,67	76,37	71,64	10,24	0,8791	0,7931
9,72	28564,02	29278,12	33,37	33825,18	76,36	71,62	10,24	0,8796	0,7933
9,74	28629,26	29344,99	33,39	33873,50	76,35	71,61	10,25	0,8800	0,7935
9,76	28694,53	29411,89	33,40	33921,64	76,34	71,59	10,25	0,8804	0,7937
9,78	28759,84	29478,83	33,42	33969,58	76,33	71,57	10,25	0,8809	0,7939
9,80	28825,18	29545,80	33,44	34017,32	76,32	71,56	10,25	0,8813	0,7940
9,82	28890,55	29612,81	33,45	34064,88	76,31	71,54	10,26	0,8817	0,7942
9,84	28955,95	29679,85	33,47	34112,25	76,30	71,53	10,26	0,8821	0,7944
9,86	29021,39	29746,93	33,49	34159,42	76,29	71,51	10,26	0,8826	0,7946
9,88	29086,86	29814,04	33,50	34206,40	76,27	71,50	10,26	0,8830	0,7948
9,90	29152,37	29881,18	33,52	34253,20	76,26	71,48	10,27	0,8834	0,7949
9,92	29217,90	29948,35	33,54	34299,81	76,25	71,47	10,27	0,8838	0,7951
9,94	29283,47	30015,56	33,55	34346,24	76,24	71,46	10,27	0,8842	0,7953
9,96	29349,07	30082,80	33,57	34392,49	76,23	71,44	10,27	0,8847	0,7955
9,98	29414,71	30150,07	33,59	34438,56	76,22	71,43	10,27	0,8851	0,7957
10,00	29480,37	30217,38	33,60	34484,46	76,21	71,42	10,28	0,8855	0,7958
10,02	29546,07	30284,72	33,62	34530,19	76,20	71,41	10,28	0,8859	0,7960
10,04	29611,80	30352,09	33,64	34575,76	76,19	71,39	10,28	0,8864	0,7962
10,06	29677,56	30419,50	33,65	34621,17	76,18	71,38	10,28	0,8868	0,7964
10,08	29743,35	30486,93	33,67	34666,43	76,17	71,37	10,29	0,8872	0,7966
10,10	29809,17	30554,40	33,68	34711,55	76,16	71,36	10,29	0,8876	0,7967
10,12	29875,03	30621,91	33,70	34756,54	76,15	71,35	10,29	0,8881	0,7969
10,14	29940,92	30689,44	33,72	34801,39	76,14	71,34	10,29	0,8885	0,7971
10,16	30006,84	30757,01	33,73	34846,13	76,12	71,33	10,30	0,8889	0,7973
10,18	30072,79	30824,61	33,75	34890,75	76,11	71,32	10,30	0,8894	0,7975
10,20	30138,77	30892,24	33,77	34935,28	76,10	71,31	10,30	0,8898	0,7977
10,22	30204,78	30959,90	33,78	34979,72	76,09	71,30	10,30	0,8903	0,7978

M/V „Dorthe Oldendorff“

T_{KC} (m)	DISPV (m³)	DISPM (t)	TPC (t/cm)	M_{TM} (tm/m)	x_B (m)	x_F (m)	KM (m)	Hydrostatics	
								C_W	C_B
10,24	30270,82	31027,59	33,80	35024,08	76,08	71,29	10,31	0,8907	0,7980
10,26	30336,90	31095,32	33,81	35068,38	76,07	71,28	10,31	0,8912	0,7982
10,28	30403,01	31163,08	33,83	35112,63	76,06	71,27	10,31	0,8916	0,7984
10,30	30469,14	31230,87	33,84	35156,84	76,05	71,26	10,31	0,8921	0,7986
10,32	30535,31	31298,70	33,86	35201,02	76,04	71,25	10,31	0,8925	0,7987
10,34	30601,51	31366,55	33,88	35245,20	76,03	71,24	10,32	0,8930	0,7989
10,36	30667,75	31434,44	33,89	35289,39	76,02	71,23	10,32	0,8935	0,7991
10,38	30734,01	31502,36	33,91	35333,60	76,01	71,22	10,32	0,8940	0,7993
10,40	30800,30	31570,31	33,92	35377,85	76,00	71,22	10,32	0,8945	0,7995
10,42	30866,63	31638,30	33,94	35422,17	75,99	71,21	10,33	0,8950	0,7997
10,44	30932,99	31706,32	33,96	35466,57	75,98	71,20	10,33	0,8955	0,7998
10,46	30999,38	31774,37	33,97	35511,07	75,97	71,19	10,33	0,8960	0,8000
10,48	31065,81	31842,45	33,99	35555,70	75,96	71,19	10,34	0,8965	0,8002
10,50	31132,26	31910,57	34,00	35600,47	75,95	71,18	10,34	0,8971	0,8004
10,52	31198,75	31978,72	34,02	35645,41	75,94	71,17	10,34	0,8976	0,8006
10,54	31265,27	32046,90	34,03	35690,55	75,93	71,16	10,34	0,8982	0,8008
10,56	31331,82	32115,12	34,05	35735,90	75,92	71,16	10,35	0,8987	0,8009
10,58	31398,41	32183,37	34,07	35781,51	75,91	71,15	10,35	0,8993	0,8011
10,60	31465,03	32251,66	34,08	35827,39	75,90	71,14	10,35	0,8999	0,8013
10,62	31531,69	32319,98	34,10	35873,57	75,89	71,14	10,36	0,9005	0,8015
10,64	31598,38	32388,34	34,12	35920,08	75,88	71,13	10,36	0,9012	0,8017
10,66	31665,10	32456,73	34,13	35966,96	75,87	71,12	10,36	0,9018	0,8019
10,68	31731,86	32525,16	34,15	36014,24	75,86	71,12	10,37	0,9025	0,8020
10,70	31798,65	32593,62	34,17	36061,94	75,85	71,11	10,37	0,9032	0,8022
10,72	31865,48	32662,12	34,18	36110,11	75,84	71,10	10,37	0,9038	0,8024
10,74	31932,35	32730,66	34,20	36158,78	75,83	71,10	10,38	0,9046	0,8026
10,76	31999,25	32799,23	34,22	36207,98	75,82	71,09	10,38	0,9053	0,8028
10,78	32066,19	32867,85	34,23	36257,77	75,81	71,08	10,39	0,9061	0,8030
10,80	32133,17	32936,50	34,25	36308,16	75,80	71,07	10,39	0,9068	0,8032
10,82	32200,19	33005,19	34,27	36359,22	75,79	71,07	10,40	0,9076	0,8033
10,84	32267,24	33073,92	34,29	36410,97	75,78	71,06	10,40	0,9085	0,8035
10,86	32334,34	33142,70	34,30	36463,46	75,77	71,05	10,41	0,9093	0,8037
10,88	32401,47	33211,51	34,32	36516,74	75,76	71,04	10,41	0,9102	0,8039
10,90	32468,65	33280,37	34,34	36570,86	75,75	71,04	10,42	0,9111	0,8041
10,92	32535,87	33349,27	34,36	36625,86	75,74	71,03	10,43	0,9120	0,8043
10,94	32603,13	33418,21	34,38	36681,78	75,73	71,02	10,43	0,9130	0,8045
10,96	32670,44	33487,20	34,40	36738,70	75,72	71,01	10,44	0,9140	0,8047
10,98	32737,79	33556,23	34,42	36796,64	75,71	71,00	10,45	0,9150	0,8048
11,00	32805,18	33625,31	34,43	36855,68	75,70	71,00	10,45	0,9161	0,8050

20 LK values

M/V „Dorthe Oldendorff“

LK values

T _{KC} (m)	DISPM (t)	10 °	12 °	20 °	30 °	40 °	50 °	60 °	75 °	90 °
1,80	4785,93	4,374	5,109	6,773	7,917	8,472	8,710	8,761	8,191	6,955
1,82	4843,34	4,346	5,066	6,749	7,900	8,469	8,711	8,774	8,195	6,956
1,84	4900,81	4,318	5,024	6,725	7,884	8,466	8,712	8,787	8,200	6,958
1,86	4958,33	4,291	4,983	6,702	7,868	8,463	8,713	8,799	8,204	6,960
1,88	5015,89	4,263	4,943	6,678	7,852	8,459	8,715	8,810	8,208	6,962
1,90	5073,51	4,235	4,904	6,655	7,837	8,455	8,716	8,821	8,212	6,963
1,92	5131,18	4,208	4,866	6,632	7,821	8,450	8,718	8,832	8,216	6,965
1,94	5188,89	4,181	4,829	6,609	7,806	8,446	8,720	8,841	8,220	6,967
1,96	5246,65	4,154	4,793	6,586	7,791	8,441	8,723	8,851	8,224	6,969
1,98	5304,46	4,127	4,758	6,564	7,775	8,437	8,725	8,859	8,228	6,971
2,00	5362,31	4,100	4,723	6,541	7,761	8,432	8,728	8,868	8,232	6,973
2,02	5420,21	4,073	4,689	6,519	7,746	8,426	8,731	8,876	8,235	6,975
2,04	5478,15	4,047	4,656	6,497	7,731	8,421	8,734	8,883	8,239	6,977
2,06	5536,13	4,020	4,624	6,475	7,717	8,416	8,737	8,890	8,242	6,979
2,08	5594,15	3,994	4,592	6,453	7,702	8,410	8,740	8,896	8,246	6,981
2,10	5652,22	3,968	4,561	6,432	7,688	8,405	8,743	8,902	8,249	6,983
2,12	5710,32	3,943	4,531	6,410	7,674	8,399	8,746	8,908	8,252	6,985
2,14	5768,46	3,917	4,502	6,389	7,660	8,393	8,750	8,913	8,255	6,987
2,16	5826,64	3,892	4,473	6,368	7,646	8,387	8,753	8,918	8,258	6,989
2,18	5884,86	3,866	4,444	6,346	7,632	8,381	8,756	8,923	8,261	6,991
2,20	5943,12	3,841	4,416	6,326	7,618	8,375	8,760	8,927	8,264	6,994
2,22	6001,41	3,817	4,389	6,305	7,605	8,369	8,763	8,931	8,267	6,996
2,24	6059,73	3,792	4,362	6,284	7,591	8,363	8,767	8,935	8,269	6,998
2,26	6118,10	3,768	4,336	6,264	7,578	8,357	8,770	8,938	8,272	7,000
2,28	6176,49	3,744	4,310	6,243	7,565	8,351	8,774	8,941	8,275	7,002
2,30	6234,92	3,720	4,285	6,223	7,551	8,345	8,777	8,944	8,277	7,004
2,32	6293,39	3,696	4,260	6,203	7,538	8,339	8,780	8,947	8,280	7,006
2,34	6351,89	3,673	4,235	6,183	7,525	8,333	8,784	8,949	8,282	7,009
2,36	6410,42	3,649	4,211	6,163	7,513	8,327	8,787	8,951	8,284	7,011
2,38	6468,98	3,626	4,188	6,143	7,500	8,320	8,790	8,953	8,287	7,013
2,40	6527,57	3,604	4,165	6,123	7,487	8,314	8,793	8,955	8,289	7,015
2,42	6586,20	3,581	4,142	6,104	7,474	8,308	8,796	8,956	8,291	7,017
2,44	6644,85	3,559	4,119	6,084	7,462	8,302	8,799	8,957	8,293	7,019
2,46	6703,54	3,537	4,097	6,065	7,449	8,296	8,802	8,958	8,295	7,021
2,48	6762,25	3,515	4,075	6,046	7,437	8,290	8,805	8,959	8,297	7,024
2,50	6820,99	3,493	4,054	6,027	7,425	8,284	8,807	8,960	8,299	7,026
2,52	6879,77	3,472	4,033	6,008	7,412	8,278	8,810	8,960	8,301	7,028
2,54	6938,57	3,451	4,012	5,989	7,400	8,272	8,812	8,961	8,303	7,030
2,56	6997,40	3,430	3,991	5,970	7,388	8,266	8,815	8,961	8,305	7,032
2,58	7056,26	3,409	3,971	5,951	7,376	8,261	8,817	8,961	8,307	7,034
2,60	7115,14	3,389	3,951	5,933	7,364	8,255	8,819	8,961	8,308	7,036
2,62	7174,06	3,369	3,932	5,914	7,352	8,249	8,821	8,960	8,310	7,038
2,64	7233,00	3,349	3,912	5,896	7,341	8,244	8,823	8,960	8,312	7,040
2,66	7291,97	3,329	3,893	5,878	7,329	8,238	8,825	8,960	8,313	7,042
2,68	7350,96	3,310	3,874	5,860	7,317	8,232	8,827	8,959	8,315	7,044
2,70	7409,98	3,290	3,855	5,842	7,306	8,227	8,828	8,958	8,316	7,046
2,72	7469,03	3,271	3,837	5,824	7,294	8,222	8,830	8,957	8,317	7,048
2,74	7528,10	3,253	3,818	5,806	7,282	8,216	8,831	8,956	8,319	7,050
2,76	7587,20	3,234	3,800	5,788	7,271	8,211	8,832	8,955	8,320	7,052
2,78	7646,32	3,216	3,782	5,771	7,260	8,206	8,833	8,954	8,321	7,054
2,80	7705,47	3,198	3,765	5,753	7,248	8,200	8,834	8,953	8,323	7,056
2,82	7764,64	3,180	3,747	5,736	7,237	8,195	8,835	8,952	8,324	7,057

M/V „Dorthe Oldendorff“

LK values

T _{KC} (m)	DISPM (t)	10 °	12 °	20 °	30 °	40 °	50 °	60 °	75 °	90 °
2,84	7823,84	3,162	3,730	5,718	7,226	8,190	8,835	8,950	8,325	7,059
2,86	7883,06	3,145	3,713	5,701	7,215	8,185	8,836	8,949	8,326	7,061
2,88	7942,31	3,128	3,696	5,684	7,204	8,180	8,836	8,947	8,327	7,063
2,90	8001,58	3,111	3,679	5,667	7,193	8,175	8,836	8,946	8,328	7,065
2,92	8060,87	3,094	3,663	5,650	7,182	8,171	8,836	8,944	8,329	7,066
2,94	8120,19	3,078	3,646	5,633	7,171	8,166	8,836	8,942	8,330	7,068
2,96	8179,54	3,061	3,630	5,616	7,160	8,161	8,836	8,941	8,331	7,070
2,98	8238,90	3,045	3,614	5,600	7,149	8,156	8,836	8,939	8,332	7,072
3,00	8298,29	3,029	3,598	5,583	7,139	8,152	8,835	8,937	8,332	7,073
3,02	8357,71	3,014	3,582	5,567	7,128	8,147	8,835	8,935	8,333	7,075
3,04	8417,14	2,998	3,566	5,550	7,117	8,143	8,834	8,933	8,334	7,077
3,06	8476,60	2,983	3,551	5,534	7,107	8,138	8,833	8,931	8,335	7,078
3,08	8536,08	2,968	3,535	5,518	7,096	8,134	8,832	8,929	8,335	7,080
3,10	8595,59	2,953	3,520	5,502	7,086	8,130	8,831	8,927	8,336	7,082
3,12	8655,12	2,938	3,505	5,486	7,075	8,125	8,829	8,925	8,336	7,083
3,14	8714,67	2,924	3,490	5,470	7,065	8,121	8,828	8,923	8,337	7,085
3,16	8774,24	2,910	3,475	5,454	7,055	8,117	8,826	8,920	8,338	7,086
3,18	8833,83	2,895	3,460	5,438	7,045	8,113	8,825	8,918	8,338	7,088
3,20	8893,45	2,882	3,446	5,422	7,034	8,109	8,823	8,916	8,338	7,089
3,22	8953,09	2,868	3,431	5,406	7,024	8,105	8,821	8,913	8,339	7,091
3,24	9012,75	2,854	3,417	5,391	7,014	8,101	8,819	8,911	8,339	7,092
3,26	9072,43	2,841	3,403	5,375	7,004	8,097	8,817	8,909	8,339	7,094
3,28	9132,14	2,828	3,389	5,360	6,994	8,093	8,814	8,906	8,340	7,095
3,30	9191,86	2,815	3,375	5,345	6,984	8,089	8,812	8,904	8,340	7,097
3,32	9251,61	2,802	3,361	5,330	6,974	8,085	8,809	8,901	8,340	7,098
3,34	9311,38	2,789	3,347	5,314	6,964	8,081	8,807	8,899	8,340	7,099
3,36	9371,17	2,777	3,334	5,299	6,955	8,077	8,804	8,896	8,341	7,101
3,38	9430,98	2,765	3,320	5,284	6,945	8,073	8,801	8,894	8,341	7,102
3,40	9490,81	2,752	3,307	5,269	6,935	8,070	8,798	8,891	8,341	7,103
3,42	9550,67	2,740	3,293	5,255	6,925	8,066	8,795	8,889	8,341	7,105
3,44	9610,54	2,729	3,280	5,240	6,916	8,062	8,791	8,886	8,341	7,106
3,46	9670,43	2,717	3,267	5,225	6,906	8,058	8,788	8,883	8,341	7,107
3,48	9730,35	2,705	3,254	5,211	6,897	8,055	8,785	8,881	8,341	7,109
3,50	9790,29	2,694	3,241	5,196	6,887	8,051	8,781	8,878	8,341	7,110
3,52	9850,24	2,683	3,228	5,182	6,878	8,047	8,778	8,875	8,340	7,111
3,54	9910,22	2,672	3,216	5,167	6,869	8,044	8,774	8,873	8,340	7,112
3,56	9970,22	2,661	3,203	5,153	6,859	8,040	8,770	8,870	8,340	7,114
3,58	10030,24	2,650	3,191	5,139	6,850	8,036	8,766	8,867	8,340	7,115
3,60	10090,28	2,639	3,179	5,125	6,841	8,033	8,762	8,865	8,340	7,116
3,62	10150,33	2,629	3,166	5,111	6,832	8,029	8,758	8,862	8,339	7,117
3,64	10210,41	2,619	3,154	5,097	6,823	8,026	8,754	8,859	8,339	7,118
3,66	10270,51	2,608	3,142	5,083	6,814	8,022	8,750	8,856	8,339	7,119
3,68	10330,63	2,598	3,130	5,069	6,805	8,018	8,745	8,853	8,338	7,121
3,70	10390,77	2,588	3,119	5,055	6,796	8,015	8,741	8,851	8,338	7,122
3,72	10450,92	2,578	3,107	5,042	6,787	8,011	8,736	8,848	8,337	7,123
3,74	10511,10	2,569	3,095	5,028	6,778	8,007	8,732	8,845	8,337	7,124
3,76	10571,30	2,559	3,084	5,015	6,769	8,004	8,727	8,842	8,336	7,125
3,78	10631,51	2,550	3,073	5,001	6,760	8,000	8,722	8,839	8,336	7,126
3,80	10691,75	2,540	3,061	4,988	6,752	7,996	8,718	8,836	8,335	7,127
3,82	10752,00	2,531	3,050	4,975	6,743	7,993	8,713	8,833	8,335	7,128
3,84	10812,27	2,522	3,039	4,962	6,734	7,989	8,708	8,830	8,334	7,129
3,86	10872,56	2,513	3,028	4,948	6,726	7,985	8,703	8,827	8,333	7,130
3,88	10932,87	2,504	3,017	4,935	6,717	7,981	8,698	8,824	8,333	7,131

M/V „Dorthe Oldendorff“

LK values

T _{KC} (m)	DISPM (t)	10 °	12 °	20 °	30 °	40 °	50 °	60 °	75 °	90 °
3,90	10993,20	2,495	3,007	4,922	6,709	7,978	8,693	8,821	8,332	7,132
3,92	11053,55	2,487	2,996	4,910	6,700	7,974	8,688	8,818	8,331	7,133
3,94	11113,92	2,478	2,985	4,897	6,692	7,970	8,683	8,815	8,330	7,134
3,96	11174,30	2,469	2,975	4,884	6,684	7,966	8,678	8,812	8,330	7,135
3,98	11234,70	2,461	2,965	4,871	6,675	7,962	8,672	8,809	8,329	7,136
4,00	11295,12	2,453	2,955	4,859	6,667	7,958	8,667	8,806	8,328	7,137
4,02	11355,56	2,445	2,944	4,846	6,659	7,954	8,662	8,803	8,327	7,138
4,04	11416,02	2,437	2,934	4,834	6,651	7,951	8,656	8,800	8,326	7,139
4,06	11476,49	2,429	2,924	4,822	6,643	7,947	8,651	8,796	8,325	7,139
4,08	11536,98	2,421	2,915	4,809	6,635	7,943	8,645	8,793	8,324	7,140
4,10	11597,49	2,413	2,905	4,797	6,627	7,938	8,640	8,790	8,323	7,141
4,12	11658,02	2,405	2,895	4,785	6,619	7,934	8,634	8,787	8,322	7,142
4,14	11718,56	2,397	2,886	4,773	6,611	7,930	8,629	8,784	8,321	7,143
4,16	11779,13	2,390	2,876	4,761	6,603	7,926	8,623	8,780	8,320	7,144
4,18	11839,70	2,382	2,867	4,749	6,595	7,922	8,618	8,777	8,319	7,145
4,20	11900,30	2,375	2,858	4,737	6,588	7,918	8,612	8,774	8,318	7,145
4,22	11960,91	2,368	2,849	4,726	6,580	7,913	8,606	8,771	8,316	7,146
4,24	12021,54	2,361	2,840	4,714	6,572	7,909	8,601	8,767	8,315	7,147
4,26	12082,19	2,354	2,831	4,702	6,565	7,905	8,595	8,764	8,314	7,148
4,28	12142,85	2,346	2,822	4,691	6,557	7,900	8,589	8,760	8,313	7,149
4,30	12203,53	2,339	2,813	4,679	6,550	7,896	8,584	8,757	8,311	7,149
4,32	12264,22	2,333	2,805	4,668	6,542	7,891	8,578	8,754	8,310	7,150
4,34	12324,93	2,326	2,796	4,657	6,535	7,887	8,572	8,750	8,309	7,151
4,36	12385,66	2,319	2,788	4,645	6,527	7,882	8,566	8,747	8,307	7,152
4,38	12446,40	2,312	2,780	4,634	6,520	7,878	8,560	8,743	8,306	7,152
4,40	12507,16	2,306	2,771	4,623	6,513	7,873	8,555	8,740	8,305	7,153
4,42	12567,94	2,299	2,763	4,612	6,505	7,868	8,549	8,736	8,303	7,154
4,44	12628,73	2,293	2,755	4,601	6,498	7,864	8,543	8,733	8,302	7,155
4,46	12689,53	2,286	2,747	4,590	6,491	7,859	8,537	8,729	8,300	7,155
4,48	12750,35	2,280	2,739	4,580	6,484	7,854	8,531	8,726	8,299	7,156
4,50	12811,19	2,274	2,732	4,569	6,477	7,849	8,525	8,722	8,297	7,157
4,52	12872,04	2,268	2,724	4,558	6,470	7,844	8,520	8,718	8,296	7,157
4,54	12932,90	2,261	2,716	4,548	6,463	7,839	8,514	8,715	8,294	7,158
4,56	12993,78	2,255	2,709	4,537	6,456	7,834	8,508	8,711	8,292	7,159
4,58	13054,68	2,249	2,701	4,527	6,449	7,829	8,502	8,707	8,291	7,159
4,60	13115,59	2,243	2,694	4,517	6,442	7,824	8,496	8,704	8,289	7,160
4,62	13176,51	2,237	2,687	4,506	6,435	7,819	8,490	8,700	8,287	7,161
4,64	13237,45	2,232	2,680	4,496	6,428	7,813	8,484	8,696	8,286	7,161
4,66	13298,40	2,226	2,673	4,486	6,421	7,808	8,478	8,692	8,284	7,162
4,68	13359,37	2,220	2,666	4,476	6,415	7,803	8,473	8,689	8,282	7,162
4,70	13420,35	2,215	2,659	4,466	6,408	7,797	8,467	8,685	8,280	7,163
4,72	13481,34	2,209	2,652	4,456	6,401	7,792	8,461	8,681	8,279	7,164
4,74	13542,35	2,203	2,645	4,446	6,395	7,786	8,455	8,677	8,277	7,164
4,76	13603,37	2,198	2,639	4,437	6,388	7,781	8,449	8,673	8,275	7,165
4,78	13664,41	2,192	2,632	4,427	6,382	7,775	8,443	8,669	8,273	7,165
4,80	13725,46	2,187	2,626	4,418	6,375	7,770	8,438	8,665	8,271	7,166
4,82	13786,52	2,182	2,619	4,408	6,369	7,764	8,432	8,661	8,269	7,167
4,84	13847,60	2,176	2,613	4,399	6,362	7,758	8,426	8,657	8,267	7,167
4,86	13908,68	2,171	2,607	4,389	6,356	7,753	8,420	8,653	8,265	7,168
4,88	13969,78	2,166	2,601	4,380	6,349	7,747	8,414	8,649	8,263	7,168
4,90	14030,90	2,161	2,595	4,371	6,343	7,741	8,409	8,645	8,261	7,169
4,92	14092,03	2,156	2,588	4,362	6,337	7,735	8,403	8,641	8,259	7,169
4,94	14153,16	2,151	2,583	4,353	6,330	7,729	8,397	8,637	8,257	7,170

M/V „Dorthe Oldendorff“

LK values

T _{KC} (m)	DISPM (t)	10 °	12 °	20 °	30 °	40 °	50 °	60 °	75 °	90 °
4,96	14214,32	2,146	2,577	4,344	6,324	7,723	8,391	8,633	8,255	7,170
4,98	14275,48	2,141	2,571	4,335	6,318	7,717	8,386	8,629	8,253	7,171
5,00	14336,66	2,136	2,565	4,326	6,312	7,711	8,380	8,625	8,251	7,171
5,02	14397,85	2,131	2,560	4,317	6,305	7,705	8,374	8,621	8,249	7,172
5,04	14459,05	2,127	2,554	4,308	6,299	7,699	8,368	8,616	8,247	7,172
5,06	14520,26	2,122	2,548	4,300	6,293	7,693	8,363	8,612	8,245	7,173
5,08	14581,48	2,117	2,543	4,291	6,287	7,686	8,357	8,608	8,243	7,173
5,10	14642,72	2,113	2,538	4,283	6,281	7,680	8,351	8,604	8,240	7,174
5,12	14703,97	2,108	2,532	4,274	6,275	7,674	8,346	8,600	8,238	7,174
5,14	14765,23	2,103	2,527	4,266	6,269	7,668	8,340	8,595	8,236	7,175
5,16	14826,50	2,099	2,522	4,258	6,263	7,661	8,334	8,591	8,234	7,175
5,18	14887,78	2,095	2,517	4,249	6,257	7,655	8,329	8,587	8,232	7,176
5,20	14949,08	2,090	2,512	4,241	6,251	7,648	8,323	8,582	8,229	7,176
5,22	15010,38	2,086	2,507	4,233	6,245	7,642	8,317	8,578	8,227	7,176
5,24	15071,70	2,082	2,502	4,225	6,239	7,635	8,312	8,574	8,225	7,177
5,26	15133,03	2,077	2,497	4,217	6,233	7,629	8,306	8,569	8,222	7,177
5,28	15194,37	2,073	2,492	4,209	6,227	7,622	8,301	8,565	8,220	7,178
5,30	15255,72	2,069	2,487	4,202	6,221	7,616	8,295	8,561	8,218	7,178
5,32	15317,08	2,065	2,483	4,194	6,216	7,609	8,290	8,556	8,215	7,178
5,34	15378,45	2,061	2,478	4,186	6,210	7,602	8,284	8,552	8,213	7,179
5,36	15439,84	2,057	2,473	4,179	6,204	7,596	8,278	8,547	8,211	7,179
5,38	15501,23	2,053	2,469	4,171	6,198	7,589	8,273	8,543	8,208	7,180
5,40	15562,63	2,049	2,464	4,164	6,192	7,582	8,267	8,538	8,206	7,180
5,42	15624,05	2,045	2,460	4,156	6,187	7,576	8,262	8,534	8,204	7,180
5,44	15685,48	2,041	2,456	4,149	6,181	7,569	8,256	8,529	8,201	7,181
5,46	15746,91	2,037	2,451	4,142	6,175	7,562	8,251	8,525	8,199	7,181
5,48	15808,36	2,033	2,447	4,135	6,169	7,555	8,245	8,520	8,196	7,181
5,50	15869,82	2,030	2,443	4,128	6,164	7,548	8,240	8,516	8,194	7,182
5,52	15931,29	2,026	2,439	4,121	6,158	7,541	8,234	8,511	8,191	7,182
5,54	15992,77	2,022	2,434	4,114	6,152	7,534	8,229	8,506	8,189	7,182
5,56	16054,26	2,019	2,430	4,107	6,146	7,528	8,224	8,502	8,186	7,182
5,58	16115,76	2,015	2,426	4,100	6,141	7,521	8,218	8,497	8,184	7,183
5,60	16177,27	2,011	2,422	4,093	6,135	7,514	8,213	8,493	8,181	7,183
5,62	16238,79	2,008	2,418	4,086	6,129	7,507	8,207	8,488	8,179	7,183
5,64	16300,32	2,004	2,414	4,080	6,124	7,500	8,202	8,483	8,176	7,184
5,66	16361,86	2,001	2,410	4,073	6,118	7,493	8,196	8,479	8,173	7,184
5,68	16423,42	1,998	2,407	4,067	6,112	7,486	8,191	8,474	8,171	7,184
5,70	16484,98	1,994	2,403	4,060	6,107	7,479	8,186	8,469	8,168	7,184
5,72	16546,55	1,991	2,399	4,054	6,101	7,472	8,180	8,465	8,166	7,185
5,74	16608,14	1,988	2,395	4,048	6,095	7,465	8,175	8,460	8,163	7,185
5,76	16669,73	1,985	2,392	4,041	6,090	7,458	8,169	8,455	8,160	7,185
5,78	16731,34	1,981	2,388	4,035	6,084	7,450	8,164	8,450	8,158	7,185
5,80	16792,95	1,978	2,384	4,029	6,078	7,443	8,158	8,446	8,155	7,185
5,82	16854,58	1,975	2,381	4,023	6,073	7,436	8,153	8,441	8,152	7,186
5,84	16916,22	1,972	2,377	4,017	6,067	7,429	8,148	8,436	8,150	7,186
5,86	16977,86	1,969	2,374	4,011	6,061	7,422	8,142	8,431	8,147	7,186
5,88	17039,52	1,966	2,370	4,005	6,056	7,415	8,137	8,427	8,144	7,186
5,90	17101,19	1,963	2,367	4,000	6,050	7,408	8,131	8,422	8,142	7,186
5,92	17162,87	1,960	2,363	3,994	6,044	7,401	8,126	8,417	8,139	7,187
5,94	17224,56	1,957	2,360	3,988	6,038	7,394	8,121	8,412	8,136	7,187
5,96	17286,26	1,954	2,357	3,983	6,033	7,387	8,115	8,407	8,134	7,187
5,98	17347,97	1,952	2,353	3,977	6,027	7,380	8,110	8,403	8,131	7,187
6,00	17409,69	1,949	2,350	3,972	6,021	7,372	8,104	8,398	8,128	7,187

M/V „Dorthe Oldendorff“

LK values

T _{KC} (m)	DISPM (t)	10 °	12 °	20 °	30 °	40 °	50 °	60 °	75 °	90 °
6,02	17471,43	1,946	2,347	3,966	6,016	7,365	8,099	8,393	8,125	7,187
6,04	17533,17	1,943	2,344	3,961	6,010	7,358	8,094	8,388	8,123	7,187
6,06	17594,93	1,941	2,341	3,955	6,004	7,351	8,088	8,383	8,120	7,188
6,08	17656,70	1,938	2,337	3,950	5,998	7,344	8,083	8,378	8,117	7,188
6,10	17718,47	1,935	2,334	3,945	5,993	7,337	8,077	8,374	8,114	7,188
6,12	17780,26	1,933	2,331	3,940	5,987	7,330	8,072	8,369	8,112	7,188
6,14	17842,07	1,930	2,328	3,935	5,981	7,323	8,066	8,364	8,109	7,188
6,16	17903,88	1,928	2,325	3,930	5,975	7,316	8,061	8,359	8,106	7,188
6,18	17965,70	1,925	2,322	3,925	5,970	7,309	8,056	8,354	8,103	7,188
6,20	18027,54	1,923	2,319	3,920	5,964	7,301	8,050	8,349	8,100	7,188
6,22	18089,39	1,921	2,316	3,915	5,958	7,294	8,045	8,344	8,098	7,188
6,24	18151,25	1,918	2,313	3,910	5,952	7,287	8,039	8,339	8,095	7,188
6,26	18213,12	1,916	2,310	3,906	5,946	7,280	8,034	8,335	8,092	7,188
6,28	18275,01	1,914	2,307	3,901	5,940	7,273	8,028	8,330	8,089	7,188
6,30	18336,90	1,911	2,305	3,896	5,934	7,266	8,023	8,325	8,086	7,188
6,32	18398,81	1,909	2,302	3,892	5,928	7,259	8,017	8,320	8,084	7,188
6,34	18460,73	1,907	2,299	3,887	5,923	7,252	8,012	8,315	8,081	7,188
6,36	18522,67	1,905	2,296	3,883	5,917	7,245	8,006	8,310	8,078	7,188
6,38	18584,62	1,902	2,294	3,878	5,911	7,238	8,000	8,305	8,075	7,188
6,40	18646,58	1,900	2,291	3,874	5,905	7,231	7,995	8,300	8,072	7,188
6,42	18708,55	1,898	2,288	3,870	5,899	7,224	7,989	8,295	8,069	7,188
6,44	18770,54	1,896	2,286	3,865	5,893	7,217	7,984	8,290	8,066	7,188
6,46	18832,54	1,894	2,283	3,861	5,887	7,210	7,978	8,285	8,064	7,188
6,48	18894,56	1,892	2,280	3,857	5,881	7,203	7,973	8,280	8,061	7,188
6,50	18956,58	1,890	2,278	3,853	5,875	7,196	7,967	8,275	8,058	7,188
6,52	19018,63	1,888	2,275	3,849	5,869	7,189	7,961	8,270	8,055	7,188
6,54	19080,68	1,886	2,273	3,845	5,862	7,183	7,956	8,265	8,052	7,188
6,56	19142,76	1,884	2,270	3,841	5,856	7,176	7,950	8,260	8,049	7,188
6,58	19204,84	1,882	2,268	3,837	5,850	7,169	7,944	8,255	8,046	7,188
6,60	19266,94	1,881	2,265	3,833	5,844	7,162	7,939	8,250	8,043	7,188
6,62	19329,06	1,879	2,263	3,829	5,838	7,155	7,933	8,245	8,041	7,188
6,64	19391,19	1,877	2,260	3,826	5,832	7,148	7,927	8,240	8,038	7,188
6,66	19453,33	1,875	2,258	3,822	5,825	7,141	7,922	8,235	8,035	7,188
6,68	19515,49	1,873	2,256	3,818	5,819	7,134	7,916	8,230	8,032	7,188
6,70	19577,67	1,872	2,254	3,815	5,813	7,128	7,910	8,225	8,029	7,188
6,72	19639,86	1,870	2,251	3,811	5,807	7,121	7,904	8,220	8,026	7,188
6,74	19702,07	1,868	2,249	3,808	5,800	7,114	7,899	8,215	8,023	7,188
6,76	19764,30	1,867	2,247	3,804	5,794	7,107	7,893	8,210	8,020	7,188
6,78	19826,54	1,865	2,245	3,801	5,788	7,101	7,887	8,205	8,017	7,188
6,80	19888,80	1,863	2,242	3,797	5,781	7,094	7,881	8,200	8,014	7,188
6,82	19951,07	1,862	2,240	3,794	5,775	7,087	7,875	8,195	8,011	7,188
6,84	20013,36	1,860	2,238	3,791	5,769	7,080	7,869	8,190	8,009	7,187
6,86	20075,67	1,859	2,236	3,788	5,762	7,074	7,864	8,185	8,006	7,187
6,88	20138,00	1,857	2,234	3,784	5,756	7,067	7,858	8,180	8,003	7,187
6,90	20200,34	1,856	2,232	3,781	5,749	7,060	7,852	8,175	8,000	7,187
6,92	20262,71	1,854	2,230	3,778	5,743	7,053	7,846	8,170	7,997	7,187
6,94	20325,09	1,853	2,228	3,775	5,736	7,047	7,840	8,165	7,994	7,187
6,96	20387,49	1,851	2,226	3,772	5,730	7,040	7,834	8,160	7,991	7,187
6,98	20449,91	1,850	2,224	3,769	5,723	7,033	7,828	8,155	7,988	7,187
7,00	20512,34	1,848	2,222	3,766	5,717	7,027	7,822	8,150	7,985	7,187
7,02	20574,80	1,847	2,221	3,763	5,710	7,020	7,816	8,145	7,982	7,187
7,04	20637,28	1,846	2,219	3,760	5,704	7,014	7,810	8,139	7,979	7,186
7,06	20699,77	1,844	2,217	3,757	5,697	7,007	7,804	8,134	7,976	7,186

M/V „Dorthe Oldendorff“

LK values

T _{KC} (m)	DISPM (t)	10 °	12 °	20 °	30 °	40 °	50 °	60 °	75 °	90 °
7,08	20762,29	1,843	2,215	3,755	5,691	7,000	7,798	8,129	7,973	7,186
7,10	20824,83	1,842	2,213	3,752	5,684	6,994	7,792	8,124	7,971	7,186
7,12	20887,38	1,840	2,212	3,749	5,677	6,987	7,786	8,119	7,968	7,186
7,14	20949,96	1,839	2,210	3,747	5,671	6,980	7,780	8,114	7,965	7,186
7,16	21012,56	1,838	2,208	3,744	5,664	6,974	7,774	8,109	7,962	7,186
7,18	21075,18	1,837	2,207	3,741	5,657	6,967	7,767	8,104	7,959	7,186
7,20	21137,82	1,835	2,205	3,739	5,651	6,961	7,761	8,098	7,956	7,186
7,22	21200,48	1,834	2,204	3,736	5,644	6,954	7,755	8,093	7,953	7,185
7,24	21263,17	1,833	2,202	3,734	5,637	6,948	7,749	8,088	7,950	7,185
7,26	21325,88	1,832	2,201	3,731	5,630	6,941	7,743	8,083	7,947	7,185
7,28	21388,61	1,831	2,199	3,729	5,624	6,934	7,737	8,078	7,944	7,185
7,30	21451,36	1,829	2,198	3,726	5,617	6,928	7,730	8,073	7,941	7,185
7,32	21514,13	1,828	2,196	3,724	5,610	6,921	7,724	8,067	7,938	7,185
7,34	21576,93	1,827	2,195	3,722	5,603	6,915	7,718	8,062	7,935	7,185
7,36	21639,76	1,826	2,194	3,720	5,596	6,908	7,712	8,057	7,932	7,185
7,38	21702,60	1,825	2,192	3,717	5,590	6,902	7,705	8,052	7,929	7,184
7,40	21765,48	1,824	2,191	3,715	5,583	6,895	7,699	8,047	7,927	7,184
7,42	21828,37	1,823	2,190	3,713	5,576	6,889	7,693	8,041	7,924	7,184
7,44	21891,29	1,822	2,188	3,711	5,569	6,882	7,687	8,036	7,921	7,184
7,46	21954,24	1,821	2,187	3,709	5,562	6,875	7,680	8,031	7,918	7,184
7,48	22017,21	1,820	2,186	3,707	5,555	6,869	7,674	8,026	7,915	7,184
7,50	22080,20	1,819	2,185	3,705	5,549	6,862	7,668	8,020	7,912	7,184
7,52	22143,22	1,818	2,184	3,702	5,542	6,856	7,661	8,015	7,909	7,184
7,54	22206,27	1,817	2,183	3,700	5,535	6,849	7,655	8,010	7,906	7,184
7,56	22269,35	1,816	2,182	3,699	5,528	6,843	7,648	8,004	7,903	7,184
7,58	22332,45	1,815	2,181	3,697	5,521	6,836	7,642	7,999	7,900	7,183
7,60	22395,57	1,814	2,180	3,695	5,514	6,829	7,636	7,994	7,897	7,183
7,62	22458,73	1,813	2,179	3,693	5,507	6,823	7,629	7,989	7,894	7,183
7,64	22521,91	1,812	2,178	3,691	5,501	6,816	7,623	7,983	7,891	7,183
7,66	22585,12	1,811	2,177	3,689	5,494	6,809	7,616	7,978	7,888	7,183
7,68	22648,36	1,810	2,176	3,687	5,487	6,803	7,610	7,973	7,886	7,183
7,70	22711,62	1,809	2,175	3,686	5,480	6,796	7,603	7,967	7,883	7,183
7,72	22774,92	1,808	2,174	3,684	5,473	6,790	7,597	7,962	7,880	7,183
7,74	22838,24	1,807	2,173	3,682	5,466	6,783	7,590	7,957	7,877	7,183
7,76	22901,59	1,807	2,172	3,680	5,460	6,776	7,584	7,951	7,874	7,183
7,78	22964,97	1,806	2,171	3,679	5,453	6,770	7,577	7,946	7,871	7,183
7,80	23028,38	1,805	2,171	3,677	5,446	6,763	7,571	7,940	7,868	7,182
7,82	23091,83	1,804	2,170	3,675	5,439	6,756	7,564	7,935	7,865	7,182
7,84	23155,30	1,803	2,169	3,674	5,432	6,749	7,558	7,930	7,862	7,182
7,86	23218,80	1,803	2,168	3,672	5,425	6,743	7,551	7,924	7,859	7,182
7,88	23282,33	1,802	2,168	3,671	5,419	6,736	7,545	7,919	7,856	7,182
7,90	23345,89	1,801	2,167	3,669	5,412	6,729	7,538	7,913	7,853	7,182
7,92	23409,48	1,800	2,166	3,667	5,405	6,722	7,531	7,908	7,851	7,182
7,94	23473,10	1,800	2,166	3,666	5,398	6,715	7,525	7,903	7,848	7,182
7,96	23536,76	1,799	2,165	3,664	5,392	6,709	7,518	7,897	7,845	7,182
7,98	23600,45	1,798	2,165	3,663	5,385	6,702	7,512	7,892	7,842	7,182
8,00	23664,17	1,798	2,164	3,661	5,378	6,695	7,505	7,886	7,839	7,182
8,02	23727,92	1,797	2,163	3,660	5,372	6,688	7,498	7,881	7,836	7,182
8,04	23791,70	1,796	2,163	3,659	5,365	6,681	7,492	7,875	7,833	7,182
8,06	23855,51	1,796	2,162	3,657	5,358	6,674	7,485	7,870	7,830	7,182
8,08	23919,36	1,795	2,162	3,656	5,352	6,667	7,478	7,864	7,827	7,182
8,10	23983,24	1,794	2,161	3,654	5,345	6,660	7,472	7,859	7,824	7,182
8,12	24047,16	1,794	2,161	3,653	5,338	6,653	7,465	7,853	7,822	7,182

M/V „Dorthe Oldendorff“

LK values

T _{KC} (m)	DISPM (t)	10 °	12 °	20 °	30 °	40 °	50 °	60 °	75 °	90 °
8,14	24111,11	1,793	2,160	3,652	5,332	6,646	7,458	7,848	7,819	7,182
8,16	24175,09	1,793	2,160	3,650	5,325	6,639	7,452	7,842	7,816	7,182
8,18	24239,10	1,792	2,159	3,649	5,319	6,632	7,445	7,837	7,813	7,182
8,20	24303,15	1,792	2,159	3,648	5,312	6,625	7,438	7,831	7,810	7,182
8,22	24367,24	1,791	2,158	3,646	5,306	6,618	7,432	7,826	7,807	7,182
8,24	24431,36	1,791	2,158	3,645	5,299	6,611	7,425	7,820	7,804	7,182
8,26	24495,51	1,790	2,158	3,644	5,293	6,604	7,418	7,814	7,801	7,182
8,28	24559,70	1,790	2,157	3,642	5,287	6,597	7,411	7,809	7,798	7,182
8,30	24623,92	1,789	2,157	3,641	5,280	6,590	7,405	7,803	7,795	7,182
8,32	24688,18	1,789	2,156	3,640	5,274	6,583	7,398	7,798	7,793	7,182
8,34	24752,47	1,789	2,156	3,638	5,268	6,575	7,391	7,792	7,790	7,182
8,36	24816,80	1,788	2,156	3,637	5,261	6,568	7,384	7,787	7,787	7,182
8,38	24881,16	1,788	2,155	3,636	5,255	6,561	7,377	7,781	7,784	7,182
8,40	24945,56	1,788	2,155	3,634	5,249	6,554	7,371	7,775	7,781	7,182
8,42	25010,00	1,787	2,154	3,633	5,243	6,546	7,364	7,770	7,778	7,182
8,44	25074,47	1,787	2,154	3,632	5,236	6,539	7,357	7,764	7,775	7,182
8,46	25138,97	1,787	2,154	3,631	5,230	6,532	7,350	7,758	7,772	7,182
8,48	25203,52	1,786	2,153	3,629	5,224	6,524	7,343	7,753	7,769	7,182
8,50	25268,10	1,786	2,153	3,628	5,218	6,517	7,336	7,747	7,766	7,183
8,52	25332,72	1,786	2,152	3,627	5,212	6,510	7,329	7,742	7,764	7,183
8,54	25397,37	1,786	2,152	3,625	5,206	6,502	7,323	7,736	7,761	7,183
8,56	25462,06	1,786	2,152	3,624	5,200	6,495	7,316	7,730	7,758	7,183
8,58	25526,79	1,785	2,151	3,623	5,194	6,487	7,309	7,725	7,755	7,183
8,60	25591,55	1,785	2,151	3,621	5,188	6,480	7,302	7,719	7,752	7,183
8,62	25656,35	1,785	2,151	3,620	5,183	6,472	7,295	7,713	7,749	7,183
8,64	25721,19	1,785	2,150	3,618	5,177	6,465	7,288	7,708	7,746	7,183
8,66	25786,07	1,785	2,150	3,617	5,171	6,457	7,281	7,702	7,743	7,183
8,68	25850,98	1,785	2,149	3,616	5,165	6,450	7,274	7,696	7,740	7,183
8,70	25915,93	1,785	2,149	3,614	5,159	6,442	7,267	7,691	7,737	7,184
8,72	25980,92	1,785	2,149	3,613	5,154	6,435	7,260	7,685	7,734	7,184
8,74	26045,95	1,785	2,148	3,611	5,148	6,427	7,253	7,679	7,732	7,184
8,76	26111,01	1,785	2,148	3,610	5,142	6,419	7,246	7,674	7,729	7,184
8,78	26176,11	1,785	2,148	3,608	5,137	6,412	7,239	7,668	7,726	7,184
8,80	26241,25	1,785	2,147	3,607	5,131	6,404	7,232	7,662	7,723	7,184
8,82	26306,43	1,785	2,147	3,605	5,126	6,397	7,225	7,657	7,720	7,184
8,84	26371,64	1,785	2,147	3,603	5,120	6,389	7,218	7,651	7,717	7,184
8,86	26436,89	1,785	2,146	3,602	5,115	6,381	7,211	7,645	7,714	7,185
8,88	26502,18	1,785	2,146	3,600	5,109	6,374	7,204	7,639	7,711	7,185
8,90	26567,51	1,785	2,146	3,598	5,104	6,366	7,196	7,634	7,708	7,185
8,92	26632,88	1,785	2,146	3,597	5,098	6,358	7,189	7,628	7,705	7,185
8,94	26698,28	1,785	2,145	3,595	5,093	6,350	7,182	7,622	7,702	7,185
8,96	26763,72	1,785	2,145	3,593	5,088	6,343	7,175	7,616	7,699	7,185
8,98	26829,20	1,786	2,145	3,591	5,082	6,335	7,168	7,611	7,696	7,186
9,00	26894,72	1,786	2,145	3,589	5,077	6,327	7,161	7,605	7,693	7,186
9,02	26960,28	1,786	2,145	3,587	5,072	6,320	7,153	7,599	7,690	7,186
9,04	27025,87	1,786	2,145	3,585	5,067	6,312	7,146	7,593	7,687	7,186
9,06	27091,50	1,786	2,144	3,583	5,061	6,304	7,139	7,588	7,684	7,186
9,08	27157,17	1,786	2,144	3,581	5,056	6,297	7,132	7,582	7,681	7,186
9,10	27222,88	1,786	2,144	3,579	5,051	6,289	7,124	7,576	7,678	7,187
9,12	27288,62	1,786	2,145	3,576	5,045	6,281	7,117	7,570	7,675	7,187
9,14	27354,40	1,787	2,145	3,574	5,040	6,273	7,110	7,564	7,672	7,187
9,16	27420,22	1,787	2,145	3,572	5,035	6,266	7,102	7,559	7,669	7,187
9,18	27486,08	1,787	2,145	3,569	5,030	6,258	7,095	7,553	7,666	7,187

M/V „Dorthe Oldendorff“

LK values

T _{KC} (m)	DISPM (t)	10 °	12 °	20 °	30 °	40 °	50 °	60 °	75 °	90 °
9,20	27551,98	1,787	2,145	3,567	5,025	6,250	7,088	7,547	7,662	7,188
9,22	27617,91	1,787	2,146	3,564	5,019	6,243	7,080	7,541	7,659	7,188
9,24	27683,88	1,787	2,146	3,561	5,014	6,235	7,073	7,535	7,656	7,188
9,26	27749,89	1,787	2,147	3,559	5,009	6,227	7,065	7,529	7,653	7,188
9,28	27815,93	1,787	2,147	3,556	5,004	6,220	7,058	7,523	7,650	7,188
9,30	27882,01	1,787	2,148	3,553	4,998	6,212	7,050	7,517	7,647	7,189
9,32	27948,13	1,786	2,149	3,550	4,993	6,205	7,043	7,511	7,643	7,189
9,34	28014,29	1,786	2,150	3,547	4,988	6,197	7,035	7,505	7,640	7,189
9,36	28080,48	1,786	2,151	3,543	4,982	6,190	7,028	7,499	7,637	7,189
9,38	28146,71	1,786	2,152	3,540	4,977	6,182	7,020	7,493	7,634	7,190
9,40	28212,97	1,785	2,153	3,537	4,971	6,175	7,013	7,487	7,630	7,190
9,42	28279,28	1,785	2,155	3,533	4,966	6,167	7,005	7,481	7,627	7,190
9,44	28345,62	1,785	2,156	3,529	4,960	6,160	6,998	7,475	7,624	7,190
9,46	28411,99	1,784	2,158	3,526	4,955	6,152	6,990	7,469	7,620	7,191
9,48	28478,40	1,784	2,160	3,522	4,949	6,145	6,982	7,462	7,617	7,191
9,50	28544,85	1,783	2,162	3,518	4,944	6,138	6,975	7,456	7,613	7,191
9,52	28611,33	1,782	2,165	3,513	4,938	6,130	6,967	7,450	7,610	7,191
9,54	28677,85	1,781	2,167	3,509	4,932	6,123	6,959	7,443	7,606	7,192
9,56	28744,41	1,780	2,170	3,505	4,926	6,116	6,952	7,437	7,603	7,192
9,58	28811,00	1,779	2,173	3,500	4,920	6,108	6,944	7,430	7,599	7,192
9,60	28877,62	1,778	2,176	3,495	4,914	6,101	6,936	7,424	7,596	7,193
9,62	28944,29	1,777	2,180	3,490	4,908	6,094	6,928	7,417	7,592	7,193
9,64	29010,98	1,775	2,183	3,485	4,901	6,087	6,921	7,411	7,588	7,193
9,66	29077,71	1,774	2,187	3,480	4,895	6,080	6,913	7,404	7,585	7,194
9,68	29144,48	1,772	2,192	3,475	4,888	6,073	6,905	7,397	7,581	7,194
9,70	29211,28	1,770	2,197	3,469	4,882	6,066	6,897	7,390	7,577	7,194
9,72	29278,12	1,768	2,202	3,463	4,875	6,059	6,889	7,383	7,573	7,195
9,74	29344,99	1,766	2,207	3,458	4,868	6,052	6,882	7,376	7,569	7,195
9,76	29411,89	1,764	2,213	3,451	4,861	6,045	6,874	7,369	7,565	7,196
9,78	29478,83	1,761	2,219	3,445	4,854	6,039	6,866	7,362	7,561	7,196
9,80	29545,80	1,758	2,226	3,439	4,846	6,032	6,858	7,355	7,557	7,196

21 Tables of volumetric shifting moment at partly filled compartment

NO 1. CARGO HOLD				
Height above Comp. Bottom (m)	Volume(m ³)	x _G (m)	z _G (m)	TSM (m ⁴)
0,0	0,00	122,50	1,64	0,00
0,2	83,79	122,52	1,74	633,92
0,4	170,60	122,53	1,84	1263,70
0,6	259,92	122,55	1,94	1886,07
0,8	351,42	122,57	2,05	2497,37
1,0	444,85	122,58	2,15	3093,80
1,2	540,09	122,60	2,26	3671,56
1,4	637,06	122,62	2,36	4227,01
1,6	735,73	122,64	2,47	4756,77
1,8	836,11	122,65	2,57	5257,79
2,0	938,21	122,67	2,68	5727,49
2,2	1042,07	122,69	2,79	6163,70
2,4	1147,71	122,70	2,89	6564,76
2,6	1255,13	122,72	3,00	6929,53
2,8	1364,31	122,74	3,11	7257,31
3,0	1475,23	122,75	3,22	7547,94
3,2	1587,83	122,77	3,33	7801,66
3,4	1702,02	122,79	3,43	8019,15
3,6	1817,70	122,80	3,54	8201,46
3,8	1934,73	122,82	3,65	8349,96
4,0	2052,95	122,84	3,76	8466,29
4,2	2172,18	122,85	3,86	8552,31
4,4	2292,24	122,87	3,97	8610,06
4,6	2412,91	122,89	4,08	8641,67
4,8	2533,98	122,91	4,18	8649,32
5,0	2655,23	122,92	4,29	8635,20
5,2	2776,42	122,94	4,40	8601,46
5,4	2897,33	122,96	4,50	8550,15
5,6	3017,74	122,97	4,61	8483,18
5,8	3137,44	122,99	4,71	8402,30
6,0	3256,23	123,01	4,81	8309,06
6,2	3373,93	123,02	4,92	8204,78
6,4	3490,37	123,04	5,02	8090,56
6,6	3605,40	123,06	5,12	7967,24
6,8	3718,89	123,07	5,22	7835,40
7,0	3830,74	123,09	5,32	7695,39
7,2	3940,87	123,11	5,42	7547,30
7,4	4049,20	123,12	5,51	7391,04
7,6	4155,70	123,14	5,61	7226,28
7,8	4260,36	123,16	5,71	7052,56
8,0	4363,15	123,18	5,80	6869,28
8,2	4464,11	123,19	5,89	6675,77
8,4	4563,26	123,21	5,98	6471,29
8,6	4660,63	123,23	6,07	6255,16
8,8	4756,27	123,24	6,16	6026,74
9,0	4850,23	123,26	6,25	5785,53
9,2	4942,55	123,28	6,34	5531,21
9,4	5033,27	123,29	6,42	5263,72
9,6	5122,43	123,31	6,50	4983,29
9,8	5210,03	123,33	6,59	4690,53

NO 1. CARGO HOLD

Height above Comp. Bottom (m)	Volume(m³)	x_G (m)	z_G (m)	TSM (m⁴)
10,0	5296,09	123,34	6,67	4386,46
10,2	5380,56	123,36	6,74	4072,55
10,4	5463,40	123,38	6,82	3750,81
10,6	5544,53	123,39	6,89	3423,77
10,8	5623,84	123,41	6,97	3094,55
11,0	5701,16	123,43	7,04	2766,83
11,2	5776,32	123,45	7,11	2444,91
11,4	5849,09	123,46	7,17	2133,64
11,6	5919,21	123,48	7,24	1838,40
11,8	5986,40	123,50	7,30	1565,09
12,0	6050,32	123,51	7,36	1320,01
12,2	6110,63	123,53	7,42	1109,77
12,4	6166,97	123,55	7,47	941,18
12,6	6218,97	123,56	7,53	821,12
12,8	6266,28	123,58	7,58	756,28

NO 2. CARGO HOLD

Height above Comp. Bottom (m)	Volume(m³)	x_G (m)	z_G (m)	TSM (m⁴)
0,0	0,00	95,90	1,63	0,00
0,2	116,37	95,90	1,74	1155,15
0,4	241,27	95,89	1,84	2284,39
0,6	371,88	95,89	1,95	3387,78
0,8	506,11	95,89	2,05	4462,62
1,0	642,49	95,88	2,16	5504,30
1,2	780,05	95,88	2,26	6507,07
1,4	918,22	95,88	2,37	7464,61
1,6	1056,72	95,88	2,47	8370,53
1,8	1195,49	95,87	2,58	9218,80
2,0	1334,61	95,87	2,69	10004,03
2,2	1474,29	95,87	2,79	10721,71
2,4	1614,76	95,86	2,90	11368,37
2,6	1756,26	95,86	3,00	11941,68
2,8	1899,04	95,86	3,10	12440,47
3,0	2043,28	95,85	3,21	12864,76
3,2	2189,10	95,85	3,31	13215,68
3,4	2336,57	95,85	3,42	13495,39
3,6	2485,67	95,84	3,52	13707,01
3,8	2636,32	95,84	3,62	13854,44
4,0	2788,33	95,84	3,73	13942,26
4,2	2941,48	95,83	3,83	13975,58
4,4	3095,46	95,83	3,93	13959,85
4,6	3249,93	95,83	4,03	13900,71
4,8	3404,49	95,83	4,13	13803,89
5,0	3558,72	95,82	4,23	13674,97
5,2	3712,19	95,82	4,33	13519,34
5,4	3864,45	95,82	4,43	13342,01
5,6	4015,08	95,81	4,53	13147,53
5,8	4163,66	95,81	4,63	12939,91
6,0	4309,82	95,81	4,73	12722,51
6,2	4453,22	95,80	4,82	12498,06
6,4	4593,59	95,80	4,92	12268,55
6,6	4730,71	95,80	5,01	12035,29
6,8	4864,42	95,79	5,11	11798,87
7,0	4994,63	95,79	5,20	11559,25
7,2	5121,33	95,79	5,29	11315,78
7,4	5244,56	95,78	5,38	11067,28
7,6	5364,46	95,78	5,47	10812,14
7,8	5481,21	95,78	5,56	10548,42
8,0	5595,05	95,78	5,65	10273,98
8,2	5706,27	95,77	5,74	9986,60
8,4	5815,21	95,77	5,83	9684,14
8,6	5922,23	95,77	5,91	9364,64
8,8	6027,70	95,76	6,00	9026,49
9,0	6131,98	95,76	6,08	8668,58
9,2	6235,45	95,76	6,16	8290,36
9,4	6338,42	95,75	6,24	7892,02
9,6	6441,17	95,75	6,32	7474,53
9,8	6543,89	95,75	6,40	7039,73
10,0	6646,72	95,74	6,48	6590,32
10,2	6749,67	95,74	6,55	6129,88
10,4	6852,64	95,74	6,63	5662,78

NO 2. CARGO HOLD

Height above Comp. Bottom (m)	Volume(m³)	x_G (m)	z_G (m)	TSM (m⁴)
10,6	6955,41	95,73	6,70	5194,08
10,8	7057,61	95,73	6,77	4729,32
11,0	7158,71	95,73	6,84	4274,30
11,2	7258,02	95,73	6,91	3834,71
11,4	7354,70	95,72	6,98	3415,72
11,6	7447,75	95,72	7,05	3021,43
11,8	7536,01	95,72	7,11	2654,28
12,0	7618,18	95,71	7,17	2314,21
12,2	7692,82	95,71	7,24	1997,84
12,4	7758,43	95,71	7,30	1697,40
12,6	7813,41	95,70	7,35	1399,51
12,8	7856,16	95,70	7,41	1076,12

NO 3. CARGO HOLD

Height above Comp. Bottom (m)	Volume(m³)	x_G (m)	z_G (m)	TSM (m⁴)
0,0	0,00	66,30	1,63	0,00
0,2	115,98	66,28	1,74	1169,87
0,4	240,78	66,27	1,84	2302,18
0,6	371,45	66,26	1,95	3401,89
0,8	505,82	66,26	2,05	4469,93
1,0	642,37	66,26	2,16	5504,25
1,2	780,08	66,26	2,26	6500,78
1,4	918,37	66,26	2,37	7454,19
1,6	1056,94	66,26	2,47	8358,58
1,8	1195,73	66,26	2,58	9207,96
2,0	1334,85	66,26	2,68	9996,72
2,2	1474,48	66,26	2,79	10719,94
2,4	1614,88	66,26	2,89	11373,60
2,6	1756,31	66,26	3,00	11954,78
2,8	1899,00	66,26	3,10	12461,74
3,0	2043,17	66,26	3,21	12893,94
3,2	2188,94	66,25	3,31	13252,01
3,4	2336,37	66,25	3,42	13537,75
3,6	2485,46	66,25	3,52	13753,95
3,8	2636,11	66,24	3,62	13904,34
4,0	2788,15	66,24	3,73	13993,40
4,2	2941,34	66,24	3,83	14026,25
4,4	3095,38	66,23	3,93	14008,42
4,6	3249,91	66,23	4,03	13945,73
4,8	3404,54	66,23	4,13	13844,12
5,0	3558,83	66,23	4,23	13709,47
5,2	3712,35	66,23	4,33	13547,45
5,4	3864,65	66,23	4,43	13363,39
5,6	4015,30	66,23	4,53	13162,17
5,8	4163,88	66,23	4,63	12948,07
6,0	4310,03	66,23	4,73	12724,74
6,2	4453,40	66,23	4,82	12495,12
6,4	4593,72	66,23	4,92	12261,40
6,6	4730,78	66,24	5,01	12025,00
6,8	4864,42	66,24	5,11	11786,59
7,0	4994,55	66,24	5,20	11546,12
7,2	5121,18	66,24	5,29	11302,89
7,4	5244,36	66,24	5,38	11055,62
7,6	5364,21	66,24	5,48	10802,52
7,8	5480,93	66,23	5,57	10541,48
8,0	5594,77	66,23	5,65	10270,11
8,2	5706,02	66,23	5,74	9985,96
8,4	5815,01	66,22	5,83	9686,62
8,6	5922,10	66,22	5,91	9369,90
8,8	6027,66	66,21	6,00	9033,97
9,0	6132,06	66,20	6,08	8677,54
9,2	6235,63	66,19	6,16	8299,94
9,4	6338,71	66,18	6,24	7901,30
9,6	6441,53	66,17	6,32	7482,59
9,8	6544,30	66,16	6,40	7045,75
10,0	6647,13	66,15	6,48	6593,64
10,2	6750,02	66,14	6,55	6130,09

NO 3. CARGO HOLD

Height above Comp. Bottom (m)	Volume(m³)	x_G (m)	z_G (m)	TSM (m⁴)
10,4	6852,87	66,14	6,63	5659,79
10,6	6955,45	66,13	6,70	5188,16
10,8	7057,40	66,12	6,77	4721,13
11,0	7158,23	66,12	6,84	4264,89
11,2	7257,29	66,12	6,91	3825,43
11,4	7353,80	66,12	6,98	3408,13
11,6	7446,86	66,12	7,04	3017,12
11,8	7535,44	66,12	7,11	2654,54
12,0	7618,41	66,13	7,17	2319,70
12,2	7694,57	66,13	7,23	2008,04
12,4	7762,71	66,13	7,29	1709,97
12,6	7821,61	66,13	7,35	1409,48
12,8	7870,11	66,13	7,40	1076,12

NO 4. CARGO HOLD

Height above Comp. Bottom (m)	Volume(m³)	x_G (m)	z_G (m)	TSM (m⁴)
0,0	0,00	38,60	1,62	0,00
0,2	82,08	38,58	1,72	750,29
0,4	176,17	38,56	1,83	1493,12
0,6	278,18	38,54	1,93	2231,15
0,8	385,10	38,51	2,04	2963,98
1,0	494,89	38,49	2,14	3689,00
1,2	606,22	38,47	2,25	4402,10
1,4	718,35	38,45	2,36	5098,25
1,6	830,98	38,43	2,46	5772,01
1,8	944,12	38,41	2,57	6417,94
2,0	1057,99	38,38	2,68	7030,90
2,2	1172,96	38,36	2,78	7606,28
2,4	1289,45	38,34	2,89	8140,20
2,6	1407,89	38,32	3,00	8629,63
2,8	1528,69	38,30	3,11	9072,42
3,0	1652,16	38,28	3,21	9467,34
3,2	1778,54	38,26	3,32	9814,04
3,4	1907,96	38,23	3,43	10113,05
3,6	2040,45	38,21	3,53	10365,63
3,8	2175,92	38,19	3,64	10573,73
4,0	2314,18	38,17	3,75	10739,87
4,2	2454,92	38,15	3,85	10866,99
4,4	2597,79	38,13	3,96	10958,37
4,6	2742,33	38,10	4,07	11017,46
4,8	2888,04	38,08	4,17	11047,78
5,0	3034,40	38,06	4,28	11052,80
5,2	3180,85	38,04	4,38	11035,84
5,4	3326,86	38,02	4,49	10999,95
5,6	3471,88	38,00	4,59	10947,84
5,8	3615,43	37,97	4,69	10881,81
6,0	3757,05	37,95	4,80	10803,69
6,2	3896,36	37,93	4,90	10714,83
6,4	4033,04	37,91	5,00	10616,05
6,6	4166,84	37,89	5,10	10507,69
6,8	4297,60	37,87	5,20	10389,56
7,0	4425,24	37,85	5,30	10261,06
7,2	4549,75	37,82	5,40	10121,16
7,4	4671,21	37,80	5,49	9968,54
7,6	4789,77	37,78	5,59	9801,63
7,8	4905,64	37,76	5,68	9618,70
8,0	5019,06	37,74	5,78	9418,02
8,2	5130,33	37,72	5,87	9197,91
8,4	5239,76	37,69	5,96	8956,88
8,6	5347,66	37,67	6,05	8693,77
8,8	5454,35	37,65	6,14	8407,81
9,0	5560,08	37,63	6,23	8098,76
9,2	5665,08	37,61	6,32	7766,99
9,4	5769,51	37,59	6,41	7413,51
9,6	5873,46	37,57	6,49	7040,08
9,8	5976,91	37,54	6,57	6649,15
10,0	6079,76	37,52	6,66	6243,89
10,2	6181,80	37,50	6,74	5828,10
10,4	6282,71	37,48	6,82	5406,08

NO 4. CARGO HOLD

Height above Comp. Bottom (m)	Volume(m ³)	x _G (m)	z _G (m)	TSM (m ⁴)
10,6	6382,10	37,46	6,89	4982,46
10,8	6479,48	37,44	6,97	4561,96
11,0	6574,31	37,41	7,04	4149,07
11,2	6666,04	37,39	7,12	3747,64
11,4	6754,11	37,37	7,19	3360,36
11,6	6838,09	37,35	7,26	2988,23
11,8	6917,65	37,33	7,33	2629,78
12,0	6992,74	37,31	7,39	2280,25
12,2	7063,61	37,28	7,46	1930,69
12,4	7131,01	37,26	7,52	1566,74
12,6	7196,26	37,24	7,58	1167,46
12,8	7261,48	37,22	7,64	1030,54

22 Angle of flooding table

Position of inflow point		
x _G	y _G	z _G
7,34 m	+/- 7,85 m	16,886 m

DISPM (t)	ANGLE OF FLOODING ϕ _f (°)
6000	89,6
7000	86,4
8000	83,3
9000	80,2
10000	77,3
11000	74,4
12000	71,6
13000	69,0
14000	66,4
15000	63,8
16000	61,4
17000	59,1
18000	56,8
19000	54,6
20000	52,6
21000	50,6
22000	48,7
23000	46,8
24000	45,1
25000	43,4
26000	41,9
27000	40,4
28000	39,0

23 Results of Heeling Experiment

Heeling Experiment M/V „Dorthe Oldendorff“

Draught obtained by draught survey (m)		2,723	Seawater density (t/m ³)		1,02529			
Trim (m)		-0,734						
Sort of weight	steel and concrete		Heeling moment: $M_H = m * e$ (tm):					
Mass of shifting weight	m_s (t)	49,23	Span of U-tube	Fore:	Lf (m)	12		
Distance	e (m)	21,42		Mid.:	Lm (m)	12		
				Aft:	La (m)	12		
No:	Position of shifting weight		Fore U-Tube		Mid. U-Tube		Aft U-Tube	
	PORT	STBD	Reading (mm)	Difference (mm)	Reading	Difference	Reading	Difference
1	●	○	356,6		360,3		371,9	
2		●○	209,5		214,6		224,1	
3	●	○	356,7		360,7		368,8	
4	●○		507,1		511,7		518,2	
5	●	○	354,6		359,4		371,2	
Total difference:								
Mean difference:			Δ fwd.		Δ mid.		Δ aft	
Mean difference / Span of U-Tube			Δ fwd./Lf		Δ mid./Lm		Δ aft/La	
Grand mean: $\tan \phi = 1/3 * (\Delta \text{ fwd./Lf} + \Delta \text{ mid./Lm} + \Delta \text{ aft/La}) =$								
Apparent metacentric height: $GM_c = m_s * e / (\text{DISPM} * \tan \phi)$								
Displacement DISPM (t)				Tank	ib (m ⁴)	ρ (t/m ³)	ib * ρ (tm)	
Draught corresponding to DISPM T_{KC} (m)				No. 3 W.B.T.A (S)	375	1,02529		
Apparent metacentric height GM_c (m)				No. 5 D.O.T.	155	0,87820		
Apparent rise of centre of gravity ΔKG (m)				L.O.S.T.	5	0,89100		
Metacentric height GM (m)				H.F.O. SETTL.T.	4	0,94590		
Height of metacentre above keel at T_{KC} KM (m)				H.F.O. SERV.T.	4	0,94590		
Vertical centre of gravity KG (m)								
Moment to change trim by one metre M_{TM} (tm/m)								
Trim lever $ht = t * M_{TM} / \text{DISPM}$ (m)								
Longitudinal centre of buoyancy x_B (m)								
Longitudinal centre of gravity x_G (m)				TOTAL				