

STEEL STEAMER or MOTORSHIP.

Received at London Office JUN 28 1937

State if Report has been sent on the Freeboard of the Vessel YESState if Report is sent on the Machinery of the Vessel YESDate of completion of report 15TH JUNE 1937Port of ROTTERDAMNo. 2573Survey held at ALBLASSERDAMDate First Survey 2ND NOV 1936Last Survey 11TH JUNE 1937On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) STEEL SINGLE SCREW MOTORSHIP "BOTHNIA" (MACHINERY AFT)State Type (Full scantling, Complete Superstructure with or without Tonnage Openings) FULL SCANTLING, SINGLE DECK State Type of Erections A.B.D. & F.C.E.TONNAGE under Tonnage Deck... 354.83CLASS 100 A1State if with freeboard as condition of Class NO

FEET.

Built at ALBLASSERDAM

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) L 158.13Launched 5-5-34 Yard No. 521Total 354.83Breadth (greatest moulded) B 27.23Builders WERF JAN SMIT CN.Gross Tonnage 493.86Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 11.65Owners N.V. MOTORVRACHTVAART "OKE" A. LETTINGA & J. SLOUWKERegister Tonnage 251.501st Longitudinal Number (L x D) = 1842Managers A. LETTINGA

(Where necessary to be entered in Reg. Book.)

2nd Numeral L x (B + D) = 6148Residence HEEMSTEDEREGISTERED DIMENSIONS.
FEET.Length 159.4Framing Depth "d," at middle of length. See Sec. 3 (1d) 9.18Port of Registry ROTTERDAMBreadth 27.4Proportions—Depth to Length—Uppermost continuous deck to top of keel 13.54

If surveyed while building, afloat, or in dry dock

Depth 9.4Draught Moulded 10.53BUILDING.

FRAMES, DOUBLE BOTTOM AND BEAMS.

	M/M IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	545	✓	Bracket Floors, Frame	115 65 8	✓
" " from $\frac{3}{8}$ length to Collision bulkhead	"	✓	" " Reversed Frame	100 65 8	✓
" " in peaks	"	✓	" " Vertical Struts	100 65 8	✓
IDE FRAMING.			Centre Girder, depth and thickness amidships	450 x 8½	✓
Frame Amidships, Angle, \angle or \square	100 65 9	✓	" " top Angles	45 45 8	✓
" " Extends up to	UPPER DECK	✓	" " bottom Angles	45 45 9	✓
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	ONE 6	✓
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	HOR. 1750 x 4½	✓
Depth of Framing Girder	✓		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{2}$ len. from stem	65 65 4	✓
Frames in Uppermost Continuous 'tween Decks, Angle, \angle or \square	✓		" " Vertical Angle to Tank side Bracket forward $\frac{1}{2}$ len. from stem	65 65 4	✓
" " Second 'tween Decks, Angle, \angle or \square	✓		" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem	✓	
" " Third " " " "	✓		" " Gussets, spacing and scantling forward $\frac{1}{2}$ len. from stem	✓	
Framing in Peaks, Angle \angle	100 65 8	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	1250 x 4	✓ 2.085
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	16" - 4D	✓	INNER BOTTOM PLATING.		
State if Frame Joggled	NO	✓	Breadth and thickness of Middle Line Strake	1500 x 4½	✓
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	SIDE STRINGERS AND PANTING BEAMS IN FORE PEAK. THICKNESS OF SHELL PLATING IN PANTING AREA 8½" ✓ SOLID FLOORS ON EVERY FR. ADDITIONAL SIDE GIRDERS. BOTTOM PL. 9½" ✓ TRANS. & BOTTOM FRAMES DOUBLE RIVETED. ✓		Thickness of remainder in Holds	4	✓
STRENGTHENING OF BOTTOM FORWARD. State Particulars			Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	✓	
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Wells, Angle, \angle or \square	140 45 8	✓
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, \angle or \square	90 45 4	✓
Middle Line Keelson, on Floors, Angles, \angle or \square			Spacing	545	✓
" " Through Plate or Intercoastal Plate			Second Deck, amidships, Angle, \angle or \square		
" " Foundation Plate on Floors			Spacing		
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, \angle or \square		
Side Keelsons, No. each side			Spacing		
" " thickness of Intercoastal Plate			Fourth Deck, amidships, Angle, \angle or \square		
" " Angles			Spacing		
DOUBLE BOTTOM.			Fore Deck, Angle, \angle or \square	140 45 8	✓
Solid Floors, thickness and spacing	4 1635	✓	Spacing	545	✓
" " Are Frame and Reversed Frame joggled?	NO	✓	Bridge Deck, Angle, \angle or \square		
Bracket Floors, breadth and thickness at middle line	550 x 4	✓	Spacing		
" " breadth and thickness at margin plate	600 x 4	✓	Forecastle Deck, Angle, \angle or \square	100 65 8	✓
			Spacing	545	✓

PILLARS AND DECKS.

	IN SHIP.	Any Departure from Approved Plans to be Noted.		IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS , No. of Rows.....	CENTRE		Stringer Plate, breadth and thickness in way of Bridge		
„ in 'tween Decks, Size and Spacing	LINE BHD		Thickness of Plating abreast Deck openings in way of Wells		
„ „ „ „ „	WITH []		Thickness of Plating abreast Deck openings in way of Bridge		
„ in Holds „ „	PILLARS AT		Thickness of Plating within line of openings...		
„ „ „ „ „	HATCH ENDS.		If Sheathed, material and thickness		
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....	130 x 45 x 8 SP 1090.	✓	Stringer Plate, breadth and thickness.....		
Plating, thickness of	6 1/2	✓	If Plated, state thickness.....		
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells	1500 x 10	✓	If Plated, state thickness		
„ „ „ „ in way of Bridge	▼		Poop Deck.		
„ Angle in Wells	90 90 11	✓	Stringer Plate, breadth and thickness		
Thickness of Plating abreast Deck openings in way of Wells	10	✓	Plating, Sheathing, material and thickness		
Thickness of Plating abreast Deck openings in way of Bridge	▼		Bridge Deck.		
Thickness of Plating within line of openings...	4 1/2	✓	Stringer Plate, breadth and thickness.....	1470 x 4	✓
If Sheathed, material and thickness	▼		Plating, Sheathing, material and thickness ..	4. UNJH.	✓
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	▼		Stringer Plate, breadth and thickness.....	6	✓
			Plating, Sheathing, material and thickness ..	6. UNJH.	✓

SHELL PLATING.

SCANTLINGS.						RIVETING.					
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? NO ✓		RIVETS.		No. of Rows of Rivets.	STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.		Diam.	Spacing cr. to cr.		
	Inches.	Inches.	Inches.	Inches.				Inches.	Inches.		
FLAT PLATE KEEL	1100	11	10	10	✓	II		19	48	III	19 65 LAPPED
„ DBLG. (if any)											
BOTTOM PLATING, No. of Strakes	1400 1650	8 1/2	9 1/2	4 1/2	✓	I	16 68	II	16 55	DO.	
BILGE PLATING, No. of Strakes	1465	8 1/2	8 1/2	4 1/2	✓	I	16 68	II	16 55	DO.	
SIDE PLATING, No. of Strakes	1450	8 1/2	8 1/2	4 1/2	✓	I	16 68	II	16 55	DO.	
UPPER DECK, Sheer-strake in Wells.....	1300	11	8 1/2	4 1/2	✓	I	19 48	III	19 65	DO.	
UPPER DECK, Sheer-strake in Bridge ...											
STRAKE BELOW Sheer-strake in Wells.....											
STRAKE BELOW Sheer-strake in Bridge ...											
R.D.D. POOR SIDE PLATING		8 1/2	4 1/2		✓	I	16 68	II	16 55	DO.	
BRIDGE SIDE PLATING ...	▼										
FORECASTLE SIDE PLATING			6		✓	I	16 65	I	16 55	DO.	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c)	2.
„ Deck next below	1.
As per Rule	3 ✓

STIFFENERS.

	Plating Thickness.				
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD , Upper tween decks					
„ „ Second „					
„ „ Third „					
„ „ Holds	6 1/2	150 x 45 x 8	460.		
„ „ „	10	180 x 45 x 9			
COLLISION „ (in Hold)	4 1/2	165 x 45 x 8	580.	SEMI BOX BEAM.	
AFTER PEAK „ „	4 1/2	100 x 45 x 7 1/2	610		

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				
STEM	ROLLED	150 x 30	✓	
STERN FRAME { Propeller Post	FORG.	145 x 80	✓	DEKELDER
{ Rudder „			✓	MACHINE FABRIEK.
Speed of Vessel	10 KNOTS.			
RUDDER—Type	SINGLE PLATE			
„ A x D x 100	172	✓		
„ Diam. of head	105	✓		
„ Mainpiece at top pintle	120	✓		
„ „ heel ...	90	✓		
„ how constructed	DRMS SHUNK ON AND KEYS.			
„ double or single plate	SINGLE PLATE.			
„ coupling, vertical or horizontal	HORIZONTAL			

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) S.M. OPEN HEARTH STEEL.
DORTMUND HOERDER HUTTENVEREIN; S.A. DES HAUTS-FOURNEAUX DE LA CHIERE;
LES PETITS-FILS DE FOS DE WENDEL & CIE
Has the Steel been tested as required by the Rules? YES

EQUIPMENT No 6553 ✓										LETTER G ✓.		ANCHORS.				
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.				
1411	1st Bower ...	10	1	21	✓			12	6	3	24	10 1/4	HALL'S PATENT	KONINKL.	LEIDEN ✓	
1412	2nd „ ...	10	1	8	✓			12	5	0	2	10 1/4	"			
1413	3rd „ ...	8	3	19	✓			11	0	1	3	8 3/4	"	NEDERL.	30-3-34	
	Collective weight.	29	2	20	✓							29 1/4 ✓				
1414	Stream	3	2	5	✓	0	3	14	✓	5	18	2	22	3 1/2	COMMON STOCK	GROFIM. ✓
															A.C. BUYZE. ✓	

CHAIN CABLES.											HAWERS AND WARPS.									
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and Size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material	Length and Size supplied.		Breaking Test of Steel Wire.	Length and Size per Table 53.				
	Length.	Diam.	Statu- tory.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.			
	Fathoms.	Ins.	Tons.	Tons.	Owts.	qrs.	lbs.	Owts.	Fathoms.	Ins.			Fathoms.	Ins.	Tons.	Fathoms.	Ins.			
4060	165	1 1/8	✓ 20.3	✓ 30.4	99-0-13		95 1/4		165	1 1/8	✓	KONINKL. NEDERL. GROFSM.	LEIDEN. 30-3-34. A.C. BUYZE.	TOWLINE...	✓ 45	2 1/2	✓ 13.2	✓ 45	2 1/2	
														HAWERS & WARPS	✓ 90	2	✓ 8.3	✓ 90	2	
														"						
														"						
Leon Stream } Glass- or Steel Wire	60	2 1/2	✓	✓ 13.2					60	2 1/2	✓									

GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

PLANS APPROVED:

MIDSHIP SECTION.
PROFILE & DECK.
W. T. BULKHEADS.
STERNFRAME & RUDDER.
MOTOR SEATING.
CAST STEEL QUADRANT ETC.

LETTERS:

ROTTERDAM.

LONDON.

14-10-36

15-10-36

20-10-36

21-10-36

16-12-36

17-12-36

12-1-37

14-1-37

26-1-37

28-1-37

FORGING REPORTS STERNFRAME & RUDDER AND COPY OF INTERIM
CERTIFICATE ATTACHED.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book

LENGTH OVER ALL: 169.3' ✓

Particulars of **Drop Test** of
Cast Steel Anchors, viz.:—
Weight, Surveyor's Initials,
Number of Certificate, Date
of Test.

1st Bower HEAD: 6-1-5⁺, WH. 6259; 12-1-37.
2nd " : 323 K.6; J.F.R. 2236; 15-1-37.
3rd " : 310; J.F.R. 2237; 15-1-37.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ▼ ft., R.Q.D. 43.3 ft., Bridge ▼ ft., Forecastle 24.9 ft.
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated ▼

No. and Material of Decks ONE STEEL DECK.

Official No. ▼; Signal Letters P.D.F.V

Is bottom of vessel coated with cement YES. ✓ if not give

particulars of composition PAINT IN MOTORROOM WITH OWNERS' CONSENT.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length.		Where Fitted.	*Length.	
	Feet.	Tons.		Feet.	Tons.
Double bottom, <u> </u> ,	101.9	157.4	Fore peak tank,	15.4	48.2
Double bottom, under Engines and Boilers,	▼	▼	After peak tank,	10.7	10.3
Double bottom, if under Engines only,	▼	▼	Deep tank, aft,	▼	▼
Double bottom, if under Boilers only,	▼	▼	Deep tank, forward,	▼	▼
Double bottom, forward,	▼	▼	Other tanks, if fitted,	▼	▼
Total capacity of double bottom <u>157.4</u>			(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).

Order for Special Survey No. 671

Date 21-10-36.

Dates of Surveys
held while building

1936: NOV. 2-12.

1937: JAN. 20; FEB. 17-23; MARCH 2-19-31-31; APR. 4-12-15-17-20-22-28

MAY 5-20; JUNE 4-10-11.

Total No. of Visits 21