

STEEL STEAMER OR MOTORSHIP.

Received at London Office

NOV 1946

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 12th November 1946 Port of AmsterdamNo. 16196ASurvey held at Amsterdam Date First Survey 10-9 Last Survey 5-11 1946On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) single screw steamer "Hardenburg" ex "Stahleck"State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) full scantling State Type of Erections poop, 2nd g. deck, bridge, etc. combined raised f.c.e.TONNAGE under Tonnage Deck ... 1043.04CLASS 100 A1 (contemplated)State if with freeboard as condition of Class yesBuilt at BremenLaunched 1923 Yard No. 318Builders Attergesellschaft WeserOwners Royal Netherlands GovernmentManagers Kon. Ned. Stoomboot Mij. (Where necessary to be entered in Leg. Book)Residence The HaguePort of Registry The Hague

If surveyed while building, afloat, or in dry dock

afloat & in dry dockDo. of space or spaces between Tonnage Dk. and Upper Dk. 305.57Total 1420.61Tonnage 1633.55Tonnage 941.97

REGISTERED DIMENSIONS.

73.69 m 241.7011.05 m 36.244.71 m 15.44Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) 73.69 mBreadth (greatest moulded) 11.05 mDepth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) 5.35 m1st Longitudinal Number (L x D) 390.552nd Numeral L x (B + D) 1193.55Framing Depth "d," at middle of length. See Sec. 3 (1d) 4.48 mProportions—Depth to Length—Uppermost continuous deck to top of keel 13.64Do. Long Bridge to top of keel yesDraught Moulded 5.33 m

FRAMES, DOUBLE BOTTOM AND BEAMS.

	m.m. IN SHIP.	Any Departure from Approved Plans to be Noted.		m.m. IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships.....	640		Bracket Floors, Frame	Angle 130 75 10	
" " from $\frac{1}{2}$ length amidships to Collision bulkhead.....	640		" " Reversed Frame.....	130 75 10	
" " in peaks	EP 350 AP 600		" " Vertical Struts	<u>yes</u>	
FRAME FRAMING.			Centre Girder, depth and thickness amidships	860 x 11	
Frame Amidships, <u>Angle</u> , <u>E</u> or <u>F</u>	180 75 10		" " top Angles	75 75 10	
" " Afterhold <u>E</u>	220 75 11		" " bottom Angles.....	100 100 10	
" " Extends up to.....	Bridge deck		Side Girders, No. each side and thickness.....	440 g.m.m.	
Reversed Frame Amidships, Angle	110 110 11	in forehold on frame 102.94, 84, 73 in after hold on frame 27 x 17	Margin Plate depth (excl. of flange) and thickness	800 x 11	
" " Extends up to.....	hatchway		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{2}$ len. from stem	75 75 9	
Depth of Framing Girder.....	in forehold 2702 mm } 2 off in afterhold 370 mm		" " Vertical Angle to Tank side Bracket from forward $\frac{1}{2}$ len. from stem to Panting Area	75 75 9	
Frames in Uppermost Continuous 'tween Decks, Angle, <u>E</u> or <u>F</u>	<u>yes</u>	for details please see Panting area	" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem.....	Forehold 15-14, 17-18, 21-23, 27-28, 32-33, 36-37	
" " Second 'tween Decks, Angle, <u>E</u> or <u>F</u>	<u>yes</u>		" " Gussets, spacing and scantling from forward $\frac{1}{2}$ len. from stem to Panting Area	Forehold 72-73, 78-79, 84-85, 90-91, 97-98, 101-102	
" " Third	<u>yes</u>		Tank Side Brackets, height above base line at toe of Frame and thickness	1300 x 11 in forehold 9 in afterhold	
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem	180 75 10		INNER BOTTOM PLATING.		
" " in Peaks, Angle or <u>E</u>	FP 150 75 9 AP 140 75 9		Breadth and thickness of Middle Line Strake.....	960 x 11	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	19 mm spaced 7 x Diam.		Thickness of remainder in Holds	9 mm	
State if Frame Joggled.....	not joggled		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?.....	as per plan	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	plan of forepeak submitted 4 panting strainers in No. 1 hold after fore peak bulkhead over 8 frame spaces, spaced 170 mm		BEAMS.		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Solid floors on every frame in No. 1 & 2 tank fitted with double frames 120 x 90 x 9 Bottom plating 12.5 mm. Side girders at 1.45 m and 2.94 m from centre line. Spacing of rivets 100 mm. 19 mm riveting		Uppermost Continuous Deck, amidships in Wells, Angle, <u>E</u> or <u>F</u>	Forehold between hatchways 14 C 170 x 75 x 12 6 fore N 1126 aft N 32 C 170 x 75 x 9 in way of hatchways C 160 x 75 x 9 in ER 1 BR C 160 x 75 x 8	
SINGLE BOTTOM. <u>not fitted</u>			" " in way of Bridge, Angle, <u>E</u> or <u>F</u>	Spacing	R 9 deck between hatchways 14 C 180 x 75 x 8 6 fore N 1126 aft N 34 C 180 x 75 x 8 half beams C 160 x 75 x 8
Floors, Depth and thickness at mid-line in Holds.....			Second Deck, amidships, Angle, <u>E</u> or <u>F</u>	Spacing	640
Height of Brackets at side above base line at toe of frame.....			Third Deck, amidships, Angle, <u>E</u> or <u>F</u>	Spacing	
Middle Line Keelson, on Floors, Angles, <u>E</u> or <u>F</u>			Fourth Deck, amidships, Angle, <u>E</u> or <u>F</u>	Spacing	
" " Through Plate or Inter-costal Plate			Poop Deck, Angle, <u>E</u> or <u>F</u>	Spacing	130 75 8 600
" " Foundation Plate on Floors			Bridge Deck, Angle, <u>E</u> or <u>F</u>	Spacing	160 75 8 640
" " Flat Plate Keel Angles			Forecastle Deck, Angle, <u>E</u> or <u>F</u>	Spacing	160 75 8 700
Side Keelsons, No. each side.....					
" " thickness of Inter-costal Plate.....					
" " Angles					
DOUBLE BOTTOM.					
Solid Floors, thickness and spacing	9 mm 120 mm				
" " Are Frame and Reversed Frame joggled?	not joggled				
Bracket Floors, breadth and thickness at middle line	400 x 9				
" " breadth and thickness at margin plate.....	400 x 9				

PILLARS AND DECKS.
PILLARS, No. of Rows
Centre Line Bulkhead
Stringers and Decks
Uppermost Continuous Deck
Second Deck

SHELL PLATING.
SCANTLINGS.
RIVETING.
STRAKES.
Edges.
Butts.

WATERTIGHT BULKHEADS.
FORGINGS AND CASTINGS.
STIFFENERS.
STEEL.
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel

EQUIPMENT No. 1335
LETTER P. 1
ANCHORS.
Number of Certificate
Anchors
Weight, Ex. Stock
Test, Per Certificate
Description of Anchor
Makers
Where and when tested, and Superintendent

GENERAL DECLARATION.
It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel
(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo
The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point (where required to be inserted in the Notation).

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.)

1 The vessel was previously classed with "Germanischer Lloyd."

2 A complete Special Survey has been carried out and all requirements of the rules for vessels not built under Survey have been complied with (See Amsterdam Rpt No 16196A and 16220.)

3 Plans of main section and of section in way of forepeak have been submitted for consideration and a General arrangement plan was sent for guidance.

4 The shell plating, decks, tanktops and several other parts of the construction have been drilled, gauged and the thicknesses have been found in accordance with the submitted plans, as tabulated in this report. See letter 20.2.47

5 No G.L. certificates of anchors and cables were available. The marks G.L. on the anchors were found, but the further marks were not legible.

6 Anchors and cables have been submitted to statutory test as stated in the form on page 3. The weight of the cable and of the 1st bower anchor are not entirely as required by the rules, but are in good condition and in view of the age in my opinion merit their approval. 3 lengths of cable were rejected and will be replaced. Copies of retest certificates are sent herewith.

7 In addition to the equipment stated on the submitted plan, 155 m 95mm diam. steel wire for the stream anchor has been supplied as stated in the form of equipment, in order to obtain the figure 1 in the notation.

PARTICULARS OF ELECTRIC WELDING (if employed) 1 Not employed

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

fit to carry dry and perishable cargoes.

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

1st Bower

2nd "

3rd "

no particulars available.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 11.8 ft., R.Q.D. 71.3 ft., Bridge 159 ft., Forecastle 28.0 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated. Bridge and fore-castle combined 159 ft.

Official No. ✓ Signal Letters PCAT Extreme Breadth over Belting (Circ. 1611) Over-all Length 251.5 feet (Circ. 1703)

No. and Material of Decks 1 deck (steel) and bridge deck (steel)

Parts of Bottom of Vessel coated with cement or approved composition bottom of F.P. tank, A.P. tank & all double

bottom tanks (5 off) covered with a layer of cement.

Particulars of composition (if fitted) and of approval ✓

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284) Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

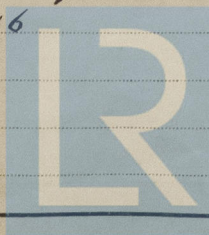
Where Fitted.	Length.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	60.8	99	Fore peak tank,	18.4	6.5
Double bottom, under Engines and Boilers,	37.8	81	After peak tank,	11.8	17
Double bottom, if under Engines only,	✓		Deep tank, aft,		
Double bottom, if under Boilers only,	✓		Deep tank, forward,		
Double bottom, forward,	98.6	202	Other tanks, if fitted, fresh water tank on tunnel	6.8	12
Total length (if continuous) and Capacity	197.2	382	(If necessary furnish further information by sketch.)		

Order for Special Survey No.

Date.

Dates of Surveys held while building

Sept 10. 13. 14. 18. 28. 30 Oct 1. 2. 7. 8. 11. 12. 14. 15. 16. 17. 18 (2x). 21. 22. 24. 25. 28. 31 Nov. 1 1946



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