

State if Report is sent on the Machinery of the Vessel..... *yes*

Survey held at Arnhem Date First Survey 17-1-'51 Last Survey 26-11- 1951

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Twin Screw Motor Ship "N/ASSA" (Machinery fitted aft

te Type (Full Scaffolding, Complete Superstructure)
with or without Tonnage Openings

State Type of Erections sunk F, RQI

NAGE unter }
nnage Deck ... }

CLASS *** 100 A1** For State if with freeboard } **NO**
 Every and Towing services Ltd. as condition of Class }

Built at Ornhem

of space or spaces
tween Tonnage Dk.
nd Upper Dk.

Length from fore part of stem to after part of stern } L 18.84
post on summer L.W.L. See Sec. 3 (1a)

Launched 2-8-1951 Yard No. 354

Builders *Arnhemse Hoornsleephelling*

Owners *Dirccao dos Servicos* ^{Mt N.Y.} *des Portos*
Caminhos de Ferro e Transportes.

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

Residence

Port of Registry *Lowrence Marques*

If surveyed while building, afloat, or in dry dock

FRAMES. DOUBLE BOTTOM AND BEAMS.

	mm INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	mm INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships.....	450			
" " from $\frac{1}{2}$ length amidships to Collision bulkhead.....	450			
" " in peaks.....	350/450			
SIDE FRAMING.				
Frame Amidships, Angle, 10	75 65 8			
" " Extends up to.....	deck			
Web Reversed Frame Amidships, Angle 10 on frames 17, 20 & 22.....	80 65 8			
" " Extends up to.....	deck			
Depth of Framing Girder.....	300			
Frames in Uppermost Continuous 'tween Decks, Angle, [or [.....	—			
" " Second 'tween Decks, Angle, [or [.....	—			
" " Third.....	—			
" from $\frac{1}{2}$ len. for'd. to 15% len. from Stem.....	75 65 8			
" in Peaks, Angle 10	75 65 8			
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships.....	7D			
State if Frame Joggled.....	no			
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?.....	yes			
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?.....	yes			
SINGLE BOTTOM.				
Floors, Depth and thickness at mid-line in Holds.....	250 65 7			
Height of Brackets at side above base line at toe of frame.....	610			
Middle Line Keelson, on Floors, Angles, [or [.....	—			
" " Through Plate or Inter- costal Plate.....	250 50 7			
" " Foundation Plate on Floors.....	—			
" " Flat Plate Keel Angles.....	ew			
Side Keelsons, No. each side.....	—			
" " thickness of Intercostal Plate.....	—			
" " Angles.....	—			
DOUBLE BOTTOM.				
Solid Floors, thickness and spacing.....	—			
" " Are Frame and Reversed Frame joggled?.....	—			
Bracket Floors, breadth and thickness at middle line.....	—			
" " breadth and thickness at margin plate.....	—			
Bracket Floors, Frame.....				
" " Reversed Frame.....				
" " Vertical Struts.....				
Centre Girder, depth and thickness amidships				
" " top Angles.....				
" " bottom Angles.....				
Side Girders, No. each side and thickness.....				
Margin Plate depth (excl. of flange) and thickness.....				
" " Vertical Angle to Tank side Bracket abaft $\frac{1}{2}$ len. from stem.....				
" " Vertical Angle to Tank side Bracket from forward $\frac{1}{2}$ len. from stem to Panting Area.....				
" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem.....				
" " Gussets, spacing and scantling from forward $\frac{1}{2}$ len. from stem to Panting Area.....				
Tank Side Brackets, height above base line at toe of Frame and thickness.....				
INNER BOTTOM PLATING.				
Breadth and thickness of Middle Line Strake.....	—			
Thickness of remainder in Holds.....	—			
Are Rule requirements complied with regard- ing increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?.....	—			
BEAMS.				
Uppermost Continuous Deck, amidships in Wells, Angle, 10	75 50 7			
" " in way of Bridge, Angle, 10	75 50 7			
" " Spacing.....	450			
Second Deck, amidships, Angle, [or [.....	—			
" " Spacing.....	—			
Third Deck, amidships, Angle, [or [.....	—			
" " Spacing.....	—			
Fourth Deck, amidships, Angle, [or [.....	—			
" " Spacing.....	—			
Poop Deck, Angle, [or [.....	—			
" " Spacing.....	—			
Bridge Deck, Angle, [or [.....	—			
" " Spacing.....	—			
Forecastle Deck, Angle, 10	65 50 6			
" " Spacing.....	350/450			

PILLARS AND DECKS.					
	^{mm} INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	^{mm} INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	
PILLARS, No. of Rows	2 ✓				Number of Certificate. 260
" in 'tween Decks, Size and Spacing	—				269
" " " " " " " "	—				
" in Holds ^{forw.} : " " φ 65 900 / 2700					
" " ^{aft.} : " " φ 65 1200 / 1350					
Centre Line Bulkhead. Stiffeners and Spacing	—				umber of ertificate. 181
Plating, thickness of	—				133
STRINGERS AND DECKS.					
Uppermost Continuous Deck.					
Stringer Plate, breadth and thickness in Wells 900 6- RQD					umber of ertificate. Steering
" " " " in way of Bridge 900 6-					Steering
" Angle in Wells at RQD 50 50 6-					Ceiling
Thickness of Plating abreast Deck openings } in way of Wells	—				Cargo
Thickness of Plating abreast Deck openings } in way of Bridge RQD	6 ✓				Size of
Thickness of Plating within line of openings ...	6 ✓				(Re
If Sheathed, material and thickness.....	wood 50 ✓				
Second Deck.					
Stringer Plate, breadth and thickness in Wells	—				
Stringer Plate, breadth and thickness in way } of Bridge	—				
Thickness of Plating abreast Deck openings } in way of Wells	—				
Thickness of Plating abreast Deck openings } in way of Bridge	—				
Thickness of Plating within line of openings...	—				
If Sheathed, material and thickness.....	—				
Third Deck.					
Stringer Plate, breadth and thickness.....	—				
If Plated, state thickness	—				
Fourth Deck.					
Stringer Plate, breadth and thickness.....	—				
If Plated, state thickness.....	—				
Poop Deck.					
Stringer Plate, breadth and thickness.....	—				
Plating, Sheathing, material and thickness ...	—				
Bridge Deck.					
Stringer Plate, breadth and thickness.....	—				
Plating, Sheathing, material and thickness ...	—				
Forecastle Deck.					
Stringer Plate, breadth and thickness.....	5 ✓				
Plating, Sheathing, material and thickness...	5 wood 50 ✓				

SHELL PLATING.												
SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled?	yes		No. of Rows of Rivets.	RIVETS.		STRAPPED LAPPE
	Breadth.	Thickness.	Thickness.	Thickness.			SINGLE OR DOUBLE.	RIVETS.		Diam.	Spacing cr. to cr.	
	Inches. mm	Inches. mm	Inches. mm	Inches. mm			Inches. mm	Inches. mm		Inches. mm	Inches. mm	
Flat Plate Keel.....	995	8	8	8		\$	5/8	65	ew			
„ Dblg. (if any)	-	-	-	-								
Bottom Plating, No. of Strakes 2	1015	7	7	7		\$	5/8	65	ew			
Bilge Plating, No. of Strakes 1	1015	7	7	7		\$	5/8	65	ew			
Side Plating, No. of Strakes	-	-	-	-								
Upper Deck, Sheer-strake in Wells.....	800	8	7	8		\$	5/8	65	ew			
Upper Deck, Sheer-strake in Bridge ...												
Strake below Sheer-strake in Wells.....	800	7	7	7		\$	5/8	65	ew			
Strake below Sheer-strake in Bridge ...												
Poop Side Plating.....	-	-	-	-								
Bridge Side Plating.....												
Forecastle Side Plating	-	-	5/6	-		\$	5/8	65	ew			

WATERTIGHT BULKHEADS.																																																																																									
Total No. of W.T. BULKHEADS in Vessel—																																																																																									
Extending to Upper Deck (Sec. 3 c)																																																																																									
Deck next below																																																																																									
As per Rule																																																																																									
<table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="6">STIFFENERS.</th> </tr> <tr> <th colspan="2"></th> <th colspan="3">VERTICAL.</th> <th colspan="3">HORIZONTAL.</th> </tr> <tr> <th colspan="2">Plating Thickness.</th> <th>Scantlings.</th> <th>Spacing.</th> <th>Scantlings.</th> <th>Spacing.</th> <th colspan="2"></th> </tr> <tr> <th colspan="2">mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td colspan="2">MIDSHIP BULKH'D, Upper 'tween decks</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>"</td> <td>"</td> <td>Second</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>"</td> <td>"</td> <td>Holds</td> <td>fr. 14</td> <td>6-5</td> <td>50</td> <td>50</td> <td>600/700 flat box</td> </tr> <tr> <td>"</td> <td>"</td> <td>Holds</td> <td>fr. 25</td> <td>6-5</td> <td>50</td> <td>50</td> <td>560/750 top of water</td> </tr> <tr> <td>"</td> <td>"</td> <td>(in Hold)</td> <td>fr. 38</td> <td>7-5</td> <td>50</td> <td>50</td> <td>600 flat box</td> </tr> <tr> <td>"</td> <td>"</td> <td>AFTER PEAK</td> <td>fr. 2</td> <td>7-5</td> <td>50</td> <td>50</td> <td>700/760 — —</td> </tr> </tbody> </table>												STIFFENERS.								VERTICAL.			HORIZONTAL.			Plating Thickness.		Scantlings.	Spacing.	Scantlings.	Spacing.			mm		mm	mm	mm	mm			MIDSHIP BULKH'D, Upper 'tween decks								"	"	Second						"	"	Holds	fr. 14	6-5	50	50	600/700 flat box	"	"	Holds	fr. 25	6-5	50	50	560/750 top of water	"	"	(in Hold)	fr. 38	7-5	50	50	600 flat box	"	"	AFTER PEAK	fr. 2	7-5	50	50	700/760 — —
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FORGINGS AND CASTINGS.				
	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted
KEEL, Bar	—	—	—	
STEM	—	76 x 38 x 7 pl. yard	—	
STERN FRAME	Propeller Post	—	—	
	Rudder	I	built 12 1/8 yard	
Speed of Vessel	not above 12 knots			
RUDDER—Type	streamline			
" A x D	29.5			
" Diam. of head	F	95/107	yard	10 3/4
" Mainpiece at top	F	107	—	—
" " heel	F	80	—	—
" how constructed	built ew			
" double or single plate	D	8	—	—
" coupling, vertical or horizontal	H	32	—	—

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture). *open hearth process*
 Plates: *Kon. Ned. Hoogovens en Staalfabrieken NV; Hüttenwerk Hörde A.G.*
 sections: *The Jones & Laughlin Steel Corp.; Skinningrove Iron Co Ltd; S.A. de la Fabrique*
 Has the Steel been tested as required by the Rules? *yes* [*de Ren*]

EQUIPMENT No. 1865

LETTER

ANCHORS.

Any Departure Approved P be Note	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.				
	268	1st Bower	4	0	4	—	—	—	6	7	3	0	3 1/4	Rijnvaart type	AK.S.	Schiedam
	269	2nd "	4	0	2	—	—	—	6	7	3	0	3 1/4	Cast steel head	Schiedam	27.6.51, A. Kragg
		3rd "														subrunk
		Collective weight	8	—	6								6 1/2			
		Stream														

CHAIN CABLES.

HAWSERS 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. Fathoms	Diam. Ins.	Statu- tory. Tons.	Break- ing. Tons.	Supplied.		Per Rule. Cwts.	Length. Fathoms	Diam. Ins.					Length. Fathoms	Cir. Ins.				
					Cwts.	qrs. lbs.													
101	2x30	5/8	7	10 1/2	13.0	1			60	5/8	Steel link	AK. S. Schiedam	12.3.51	TOWLINE					
133	2x30	5/8	7	10 1/2	13.0	1b					"	"	6.9.51	HAWSERS & WARPS }	60	4 1/2	fibre	60	4 1/2
													AK	"	60	2 1/2	"	60	2 1/2
In Stream basin or eel Wire }														"					
														"					

Steering Gear, Type (Power or hand)

hand gear

Alternative Means of Steering

emergency tackles

Steering Chains (Size and Test)

5/8" ; 3 3/4 & 7 1/2 tons

Windlass

hand driven

Boats

none

Ceiling in Holds, thickness and material

tests for
9 1/2 chain

Cargo Battens, thickness, material and spacing

Cargo Hatchways.—(Upper Deck)

Thickness of Hatches

Size of Hatchways No. 1 (Fwd.)

No. 2

No. 3

No. 4

No. 5

No. 6

of Shifting Beams
Fore and Afters

Builder's Signature

De Arnheemsche Stoomsleephelling Mij. N.V.

Arnhem.

O.L. Min.

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. ☒ No. ☐ 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).

point above 150° F.; oil fuel situated in bottom tank abaft engine room.

This ship has been built under Special Survey in conformity with the Society's Rules Regulations and Secretary's Orders. The scantlings and arrangements of the ship as given in the report and as shown and amended on the approved plans now forwarded. All modifications or additions to the original approved arrangements during construction have been indicated on the plans and have been approved as being in accordance with, or by standards equivalent to, the requirements. The plans of midships section and profile and decks showing the ship as built, now forwarded herewith, have been checked and the approved arrangements and found in order. Fore-and-afterpeak and water- and oil fuel tank have been tested as required and found tight. Berth decks and watertight bulkheads have been tested and found tight. Main- and gun- mounting arrangement and windlass tried and found working satisfactorily. Freeboard marks found in order.

Amount of Entry Fee

£ 350.-

Fees applied for,

10/11.19.52

Special Survey Fee

£ : :

Received by me,

Travelling Expenses, if any

£ 281.50

I am of opinion the Vessel should be Classed ~~X~~ 100 A1 "For Ferry and Towing Services between Mozambique and Lumbo".

State whether the Vessel has been built under Special Survey

yes

Certificate to be sent to

Rot

Date of issue

5/6/53

Committee's Minute

Character assigned

TUES. 26 FEB 1952

Deferred for Completion Survey
at Mozambique

write Spt

Rmt.

See minute on
Ref. LA 1194



Lloyd's Register
Foundation

0294 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 the Plans should be embodied.)

no sister vessel.

Profile and decks (revised)
Midship section
Engine seat
Propeller struts
Addition to R.Q. deck
Shell expansion

13-3-'51
21-12-'51
13-3-'51
10-4-'51
16-10-'51
5-2-'51

PARTICULARS OF ELECTRIC WELDING (if employed)

Centre keelson; beams; bulkhead stiffeners; butts of shell plating;
engine seat; rudder post and rudder; decks.

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

Cruiser stern

RADAR Equipment (State if fitted)

State Type or Pattern No.

State } Maker
Name } and/or
of } Supplier

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

1st Bower 122 k7, M.J. 3936 15,6,51.
2nd ,, 123 ,, M.J. 3937 15,6,51.
3rd ,,

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop — ft., R.Q.D. 36.4 ft., Bridge — ft., Forecastle 9.9 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. — Signal Letters — Extreme Breadth over Belting 19.1 Over-all Length 71.6
(Circ. 1811) (Circ. 1703)

No. and Material of Decks one steel deck

Parts of Bottom of Vessel coated with cement or approved composition forepeak cement wash; engine room oiled,
fresh water tank cement wash, oil fuel tank oiled, remainder merium.

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,	—	—	Fore peak tank,	—	—
Double bottom, under Engines and Boilers,	—	—	After peak tank,	—	—
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 length (if continuous) and Capacity	—	—	(If necessary furnish further information by sketch.)		

Order for Special Survey No.

Date

Dates of Surveys
held while building

1951: 17, 30-1; 15, 27-3; 12, 23-4; 9, 15-5; 4, 26-6; 30-7;
2-8; 3, 8, 17, 22, 30-10; 19, 26-11.

Lloyd's Register
Foundation
Total No. of Visits 18