

DISCLOSED

SECTION

No.

## STEEL STEAMER OR MOTORSHIP.

Received at London Office

DISCLOSED

State if Report has been sent on the Freeboard of the Vessel yesState if Report is sent on the Machinery of the Vessel yes

30 MAY 1953

No. 123094

Date of completion of report 18th May 1953Port of RotterdamSurvey held at BolnesDate First Survey 7th DecemberLast Survey 23rd March

1953

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) twin screw motorship "MENGKARA"State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) full scantling for Indonesian coasting serviceState Type of Erections forecastle & bridgeTONNAGE under Tonnage Deck ... 611.73CLASS A1 State if with freeboard as condition of Class yesBuilt at Bolnesof space or spaces between Tonnage Dk. Upper Dk. yesLength from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) 58.50Launched 3rd October 1952 Yard No. 927Breadth (greatest moulded) 10.15Builders N.V. Scheepshouwerij Gebr. Pat.Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) 4.40Owners Indonesian GovernmentTonnage 1131.64or Tonnage 501.68Managers yes (Where necessary to be entered in Reg. Book)

## REGISTERED DIMENSIONS.

FEET

196.333.411.8Framing Depth "d," at middle of length. See Sec. 3 (1d) yesResidence DjakartaProportions—Depth to Length—Uppermost continuous deck to top of keel 13.3Port of Registry DjakartaDo. Long Bridge to top of keel 8.7

If surveyed while building, afloat, or in dry dock

Draught Moulded 10' 6 1/4"building

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships.....	600		Bracket Floors, Frame .....	✓	
" " from 1/2 length amidships to Collision bulkhead.....	560		" " Reversed Frame.....	✓	
" " in peaks .....	560		" " Vertical Struts .....	✓	
DE FRAMING.			Centre Girder, depth and thickness amidships	98.5.10 (ER and forward)	
Frame Amidships, Angle, <u>E or F</u> every 4th frame	150.75.8	in ER	" " top Angles .....	EW	
" " Extends up to.....	upper deck		" " bottom Angles.....	EW	
Reversed Frame Amidships, Angle	150.75.8	in bunker	Side Girders, No. each side and thickness.....	one 8	
" " every 4th frame	150.75.8	in way platform deck and tunnel tanks	Margin Plate depth (excl. of flange) and thickness .....	no margin plate	
" " Extends up to	150.75.8		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem .....	✓	
Depth of Framing Girder.....	150-90-75		" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area .....	✓	
Frames in Uppermost Continuous 'tween Decks, Angle, <u>E or F</u> every 4th frame	150.75.8	in way of forward cargo hold	" " Gussets, spacing and scantling abaft 1/2 len. from stem.....	✓	
" " Second 'tween Decks, Angle, <u>E or F</u>	150.75.8		" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area .....	✓	
" " Third " " " "	150.75.8	every 4th frame	Tank Side Brackets, height above base line at toe of Frame and thickness	see plans	
" " from 1/2 len. for'd. to 15% len. from Stem .....	150.75.8	remainder	INNER BOTTOM PLATING.		
" " in Peaks, Angle or <u>E</u> .....	150.75.8	every other frame	Breadth and thickness of Middle Line Strake...	8	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships .....	19-133 (104 in way bunkers)		Thickness of remainder in Holds .....	8	
State if Frame Joggled.....	no		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?.....	yes	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved? .....	as approved		BEAMS.		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved? .....	as approved		Uppermost Continuous Deck, amidships in Wells, Angle, <u>E or F</u> .....	175.65.7	
DOUBLE BOTTOM.			" " in way of Bridge, Angle, <u>E or F</u> .....	✓	
Floors, Depth and thickness at mid-line in Holds, way of tunnel.....	500.8		Spacing .....	every frame	
Height of Brackets at side above base line at toe of frame.....	1000		Platform deck		
Middle Line Keelson, on Floors, Angles, <u>E or F</u> .....	EW		Second Deck, amidships, Angle, <u>E or F</u> .....	175.65.7	
" " Through Plate or Inter-coastal Plate .....	500 x 10-8		Spacing .....	every frame	
" " Foundation Plate on Floors .....	14.125.75.8		Tunnel deck		
" " Flat Plate Keel Angles .....	EW		Third Deck, amidships, Angle, <u>E or F</u> .....	130.75.7	in way of tanks and recess
Side Keelsons, No. each side.....	2 (side bulkheads of tunnel tanks)		Spacing .....	165.65.7	in way of tunnels
" " thickness of Intercoastal Plate .....	9		Fourth Deck, amidships, Angle, <u>E or F</u> .....	✓	
" " Angles .....	EW to bottom		Spacing .....	✓	
DOUBLE BOTTOM.			Poop Deck, Angle, <u>E or F</u> .....	175.65.7	after end of bridgedeck
Solid Floors, thickness and spacing .....	7 every frame		Spacing .....	every frame	
" " Are Frame and Reversed Frame joggled? .....	no frames		Bridge Deck, Angle, <u>E or F</u> .....	175.65.7	
Bracket Floors, breadth and thickness at middle line .....	✓		Spacing .....	every frame	
" " breadth and thickness at margin plate.....	✓		Forecastle Deck, Angle, <u>E or F</u> .....	175.65.7	
			Spacing .....	every frame	



## PILLARS AND DECKS.

	INCHES IN SHIP. <i>No.</i>	Any Departure from Approved Plans to be Noted.	INCHES IN SHIP. <i>No.</i>	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows .....	One each side ✓		Stringer Plate, breadth and thickness in way of Bridge .....	✓
" in 'tween Decks, Size and Spacing .....	100 x 60 solid max dist. 3000 ✓		Thickness of Plating abreast Deck openings in way of Wells .....	✓
" " " " "			Thickness of Plating abreast Deck openings in way of Bridge.....	✓
" in Holds forward and in E.R. ✓	180 x 10 max dist. 4680 ✓		Thickness of Plating within line of openings...	5 ✓
" " s/c " " ✓	100 solid max dist. 4800 ✓		If Sheathed, material and thickness.....	50 mm teak ✓
Centre Line Bulkhead.			Third Deck. tunnel deck s/c	
Stiffeners and Spacing .....	✓		Stringer Plate, breadth and thickness.....	8
Plating, thickness of .....	✓		If Plated, state thickness .....	8
STRINGERS AND DECKS.			Fourth Deck.	
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	✓
Stringer Plate, breadth and thickness in Wells	1480 x 8 above bunker 7 in Wells 10 in way of wash places 6 remainder EW ✓		If Plated, state thickness.....	✓
" " " " in way of Bridge			Poop Deck.	
" Angle in Wells .....			Stringer Plate, breadth and thickness.....	✓
Thickness of Plating abreast Deck openings } in way of Wells .....	6 ✓		Plating, Sheathing, material and thickness ...	✓
Thickness of Plating abreast Deck openings } in way of Bridge.....	6		Bridge Deck.	
Thickness of Plating within line of openings...	6		Stringer Plate, breadth and thickness.....	1130 x 8 ends 740 x 7 ✓
If Sheathed, material and thickness.....	50 mm teak outside deckhouses 40 mm " inside deckhouses ✓		Plating, Sheathing, material and thickness }	7-6 50 mm teak outside deckhouse ✓
Second Deck. platform deck forward			Forecastle Deck.	
Stringer Plate, breadth and thickness in Wells	5 ✓		Stringer Plate, breadth and thickness.....	40 mm teak inside deckhouse ✓
			Plating, Sheathing, material and thickness...	

## SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? <i>yes</i>	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED LAPPS.
	Breadth.	Thickness.	Thickness.	Thickness.			SINGLE OR DOUBLE.	Diam.		Spacing cr. to cr.	Diam.	
	<i>Inches.</i> <i>h/h</i>	<i>Inches.</i> <i>h/h</i>	<i>Inches.</i> <i>h/h</i>	<i>Inches.</i> <i>h/h</i>		<i>Inches.</i> <i>h/h</i>	<i>Inches.</i> <i>h/h</i>		<i>Inches.</i>	<i>Inches.</i>		
Flat Plate Keel.....	<i>1800</i>	<i>15</i>	<i>15</i>	<i>15</i>		<i>Double</i>	<i>19</i>	<i>75</i>				
„ Dblg. (if any)	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>				
Bottom Plating, No. of Strakes <i>A-B</i> .....	<i>1800</i>	<i>9 1/2</i>	<i>13-12 1/2</i>	<i>9</i>		<i>Double</i>	<i>19</i>	<i>75</i>				
Bilge Plating, No. of Strakes <i>C</i> .....	<i>1760</i>	<i>9 1/2</i>	<i>9 1/2</i>	<i>9</i>		<i>Double</i>	<i>19</i>	<i>75</i>				
						<i>Single</i>	<i>19</i>	<i>75</i>				
Side Plating, No. of Strakes .....	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>				
Upper Deck, Sheer- strake in <i>Wells E.</i>	<i>1750</i>	<i>9</i>	<i>9</i>	<i>9</i>		<i>single</i>	<i>19</i>	<i>75</i>	<i>EW</i>			
Upper Deck, Sheer- strake in Bridge ...	<i>1750</i>	<i>✓</i>	<i>✓</i>	<i>12</i>	<i>at break of bridge</i>	<i>single</i>	<i>19</i>	<i>75</i>				
Strake below Sheer- strake in Wells <i>D.</i>	<i>1750</i>	<i>9</i>	<i>9-12</i>	<i>9</i>		<i>single</i>	<i>19</i>	<i>75</i>				
Strake below Sheer- strake in Bridge ...	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>				
Poop Side Plating.....	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>				
Bridge Side Plating.....	<i>1700</i> <i>740</i>	<i>9</i>	<i>✓</i>	<i>9</i>		<i>single</i>	<i>19</i>	<i>75</i>				
Forecastle Side Plating	<i>✓</i>	<i>✓</i>	<i>9</i>	<i>✓</i>		<i>single</i>	<i>19</i>	<i>75</i>				

## WATERTIGHT BULKHEADS.

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
Total No. of W.T. BULKHEADS in Vessel—						
Extending to Upper Deck (Sec. 3 c)		8				
„ Deck next below		✓				
As per Rule		4				
MIDSHIP BULKH'D, Upper 'tween decks						
„	„ Second „					
„	„ Third Hold „	10-7-7	100.65.7	670-510		
„	„ Holds	10-8-8	125.75.8	615-470		
COLLISION	„ (in Hold)	10-8-7	125.75.8	650-530	610	
AFTER PEAK	„	10-8-7	115.65.7	610		

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any D from A Plans to
KEEL, Bar .....	plate			
STEM .....	φ100 and 12mm plate.	yard		
STERN FRAME {	Propeller Post	✓	Denks	
{	Rudder	✓	EW plate and casting	yard
Speed of Vessel .....	not exceeding	13 knots		
RUDDER—Type	stream lined			
„ A × D.....	88,5			
„ Diam. of head .....	forging	170-160φ	Wilton	
„ Mainpiece at top pintle	✓			
„ „ heel ...	✓			
„ how constructed .....	EW plate and castings.		Denks	yard
„ double or single plate	double			
„ 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) open hearth process  
Kon. Ned. Hoogovens & staalfabrieken. Cargo fleet Iron Co Ltd. Dorman Long & Co. Ougree-Marihaye  
Has the Steel been tested as required by the Rules? yes.



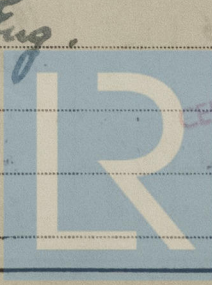
EQUIPMENT No. 10649												LETTER m		ANCHORS.	
Number of Plasticate. Note	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested, and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.				
3257	1st Bower	36	3	5				33	13	1	0	23-1-0 ✓	Spek type	K.N.G.	Leiden 1-2-52 K.v.D.
3258	2nd "	32	1	24				30	10	0	0		" "	"	"
	3rd "	36	3	17				33	15				" "	"	"
	Collective weight	106	0	18								66-3-0 ✓	no spare anchor		29/52 "
3274	Stream	6	1	14	1	2	11	0	12	2	0	6-0-0	Common type	K.N.G.	Leiden 19-3-52 K.v.D.

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.	Diam.	Statutory.	Breaking.	Supplied.	Per Rule.	Length.	Diam.	Length.					Cir.	Length.		Cir.		
6140	232	1 1/2	40 1/2	50 3/4	279-2-15	222-2-0	210	1 3/4	studlink	K.N.G.	Leiden 18-2-53 K.v.D.	TOWLINE	90	3 1/4	27.1	90	3 1/4		
												HAWSERS & WARPS }	90	3 1/4	27.1	90	2 1/4		
													90	2 1/4	10.8	90	1 3/4		
													90	1 3/4	6.4				
Stream and El Wire	76	3 1/2		29.4			60	3 1/2											

Steering Gear, Type (Power or hand)	electric hydraulic & hand hydraulic	Alternative Means of Steering	pinion and quadrant
Steering Chains (Size and Test)	✓	Windlass	electric
Boats	4		
Coiling in Holds, thickness and material	2" kroewing	Cargo Battens, thickness, material and spacing	40 teak, 230 max.
ways.—(Upper Deck)	3, built up from plate and sections	Thickness of Hatches	60
ways No. 1 (Fwd.)	910 x 1600	No. 2	2800 x 3000
No. 3	1800 x 3000	No. 4	2200 x 3000
No. 5	✓	No. 6	✓
Shifting Beams	✓	1	✓
and Afters			
Builder's Signature N.V. SCHEEPSBOUW WERF DEBRs. POT			

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.	✓
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 stated, together with the flash point (where required to be inserted in the Notation).	
ship has been built under Special Survey in conformity with the Society's Rules and Regulations and its letters. The scantlings and arrangements of the ship are as given in the report and as shown and on the approved plans now forwarded. All modifications or additions to the original approved plans made during construction have been indicated on the plans and have been approved as being in accordance with, or by standards equivalent to, the Rule requirements. The plans of midship section and decks showing the ship as built, now forwarded herewith, have been checked with the arrangements and found in order. All tanks have been tested, decks and bulkheads hoisted and tight. Windlass and steering gears have been tried under working conditions and found in order.	✓

Amount of Entry Fee.....	fl. 2908,-	Fees applied for,	21-5 19 53	(Special notations, where part of class, to be stated.)
Special Survey Fee.....	£ : :	Received by me,		
Travelling Expenses, if any .....	fl. : 113,-		19	
Whether the Vessel has been built under Special Survey	yes	I am of opinion the Vessel should be Classed	+100 A1	for Indonesian coasting service
Certificate to be sent to	Rotterdam Surveyors	Signature	Struycken	Surveyor to Lloyd's Register of Shipping.
Date of issue	1/7/53			
Committee's Minute	FRI. 19 JUN 1953			
Character assigned	+100A1 For Indonesian Coasting Service			
	5.53 Dja			
	Lloyds A+C.P.			
	+LMC 4.53 Oil Eng.			
	CL			
	White Rot.			



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**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.*)

Sistervessel: n.s. "Diojadat" (Verschure & Co yard n° C.O.185), Amsterdam report:

Plans approved by London office:

Midship section

Profile and decks and bulkheads

Plans approved by Rotterdam office:

Stern frame and rudder

### Shaft brackets

Long bulkhead and floors in bunker

## Engine foundations

O.T & W.T bulkheads

Forepeak

## Shell expansion

Certificates attached:

# Stern-frame

2 rudder castings

2 shaftbrackets

rudderhead

interim certificate

PARTICULARS OF ELECTRIC WELDING (if employed) butts of shellplating, bulkheads, decks, part of frames to shellplating, rudder, part of stern frame, deckhouses.

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

port EW. cruiser stern. E.S.D.

RADAR Equipment (State if fitted).....not 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 26-1-20 AEG 2510, 10-8-51 weight head + pins 60% of total weight.

2nd " 19-3-14 AEG 2642. 28-9-51

3rd "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge 121.0 ft., Forecastle 32.1

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

Official No. ✓ Signal Letters PKAL Extreme Breadth over Belting ✓ Over-all Length 24.0'

No. and Material of Decks one steel deck one steel platform deck forward only (circ. 1011)

Parts of Bottom of Vessel coated with cement or approved composition *peak tanks, DB ballast tanks and single bottom structure bitumas*

fresh water tanks cement washed

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. Feet.	Water Capacity. Tons. $m^3$	Where Fitted.	Length. Feet.	Water Capacity. Tons. $m^3$
Double bottom, aft,			Fore peak tank,	16.7	15.6
Double bottom, under Engines and Boilers,	29.5	27.2	After peak tank,	14.7	13.5
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,		61.2 fresh only	Deep tank, forward,	9.2	4.4
Double bottom, forward,	61.6	39.2	Other tanks, if fitted, 4 tunnel tanks	11.8-13.8-15.8	50.0
Total length (if continuous) and Capacity	not continuous	66.4	(If necessary furnish further information by sketch.) 2 tunnel tanks		104.4

Order for Special Survey No.

Date 13-9-'51

### Dates of Surveys held while building

1951: Dec. 7.

1952: Jan. 16. Feb. 4, 28. Mar. 12, 17, 21, 27. Apr. 18, 22. May 12, 23, 28. June 3, 24, 30. July 21, 28.

Aug 2 4 13 15 18 22 25 Sept 1 6 8 11 13 21 Oct 1 3 4 20 Nov 3 1

Aug. 9. 11. 13. 15. 18. 19. 23.

24.26.27 Dec. 10. 18.22.

Total No. of Visits 6