

STEEL STEAMER OR MOTORSHIP.

12 OCT 1953
Received at London OfficeState 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 3-9-'53 Port of Rotterdam No. 36876ASurvey held at Frederik J. de Ambaalt Date First Survey 18-9-'52 Last Survey 24-8- 1953On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) single screw motorvessel "BALAM"State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) full scantling State Type of Erections F + Bridge CombinedTONNAGE under Tonnage Deck 137.43 CLASS 100 A1 "For service in the Indonesian Archipelago" State if with freeboard as condition of Class no Built at Frederik J. de AmbaaltDo. 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) 35.00 Launched 18-6-'53 Yard No. 271Total Breadth (greatest moulded) 6.50 Builders Jonger & HantsGross Tonnage 192.87 Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) 2.959 Owners Indonesian GovernmentRegister Tonnage 74.63 1st Longitudinal Number (L x D) 1/11.83 Managers (Where necessary to be entered in Reg. Book)

Residence

Port of Registry DjakartaIf surveyed while building, afloat, or in dry dock while building

REGISTERED DIMENSIONS.

FEET

Length 117.8 (35.90m)Breadth 21.4 (6.53m)Depth 7.8 (2.37m)

Framing Depth "d," at middle of length. See Sec. 3 (1d)

Proportions—Depth to Length—Uppermost continuous deck to top of keel

Do. Long Bridge to top of keel

Draught Moulded 6'-4 5/8"

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.....	500		Bracket Floors, Frame	—	
" " from 1/2 length amidships to Collision bulkhead.....	500		" " Reversed Frame.....	—	
" " in peaks	450		" " Vertical Struts	—	
SIDE FRAMING. <u>from AP bhd to AFTER</u>	75 65 7		Centre Girder, depth and thickness amidships	700/900 7	
Frame Amidships, Angle, <u>100</u>	65 8 75.65.8/75		" " top Angles	ew	
" " Extends up to.....	freeb. deck		" " bottom Angles.....	ew	
Web <u>Reversed</u> Frame Amidships, Angle <u>on frs 34 & 38</u>	7 flange 65		Side Girders, No. each side and thickness.....	—	
" " Extends up to.....	freeb. deck		Margin Plate depth (excl. of flange) and " " thickness	hor.	
Depth of Framing Girder.....	250 75		" " Vertical Angle to Tank side " " Bracket abaft 1/2 len. from stem	frames passing through plate	
Frames in Uppermost Continuous 'tween Decks, Angle, [or [.....	—		" " Vertical Angle to Tank side " " Bracket from forward 1/2 len. from stem to Panting Area	—	
" " Second 'tween Decks, Angle, [or [.....	—		" " Gussets, spacing and scantling " " abaft 1/2 len. from stem.....	—	
" " Third	—		" " Gussets, spacing and scantling " " from forward 1/2 len. from stem to Panting Area	—	
" " from 1/2 len. for'd. to 15% len. from Stem	100 65 8 75.65.75		Tank Side Brackets, height above base line at toe of Frame and thickness	—	
" " in Peaks, Angle <u>100</u>	65 8 75.65.85		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships	5/8 7D		Breadth and thickness of Middle Line Strake...	6	
State if Frame Joggled.....	no		Thickness of remainder in Holds	6	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	yes		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?.....	yes	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?.....	yes		BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle, <u>100</u>	75 60 7	
Floors, Depth and thickness at mid-line in Holds.....	900/940 6		" " in way of Bridge, Angle, <u>100</u>	75 50 7	
Height of Brackets at side above base line at toe of frame.....	—		Spacing	500	
Middle Line Keelson, on Floors, Angles, [or [.....	—		Second Deck, amidships, Angle, [or [.....	—	
" " Through Plate or Inter- costal Plate	6		Spacing	—	
" " Foundation Plate <u>on</u> "between" Floors	100 6		Third Deck, amidships, Angle, [or [.....	—	
" " Flat Plate Keel Angles	ew		Spacing	—	
Side Keelsons, No. each side.....	—		Fourth Deck, amidships, Angle, [or [.....	—	
" " thickness of Intercoastal Plate...	—		Spacing	—	
" " Angles	—		Poop Deck, Angle, [or [.....	—	
DOUBLE BOTTOM.			Spacing	—	
Solid Floors, thickness and spacing	6 500		Bridge Deck, Angle, <u>100</u>	75 50 6	
" " Are Frame and Reversed Frame joggled?	—		Spacing	500	
Bracket Floors, breadth and thickness at middle line	—		Forecastle Deck, Angle, <u>100</u>	75 50 6	
" " breadth and thickness at margin plate.....	—		Spacing	500/450	

PILLARS AND DECKS.

		INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.	
PILLARS, No. of Rows		one			
" in ^{Bridge space} between Decks , Size and Spacing		tube $\phi 60/43$ 2000 ✓			
" " " " "		—			
" in Holds " " "		tube $\phi 60/43$ 2000			
" " " " "		—			
Centre Line Bulkhead. Stiffeners and Spacing		—			
Plating, thickness of		—			
STRINGERS AND DECKS.					
Uppermost Continuous Deck.					
Stringer Plate, breadth and thickness in Wells		1410	8	✓	
" " " " in way of Bridge		7		✓	
" Angle in Wells		75 75	8	✓	
Thickness of Plating abreast Deck openings in way of Wells		6		✓	
Thickness of Plating abreast Deck openings in way of Bridge		6		✓	
Thickness of Plating within line of openings...		6		✓	
If Sheathed, material and thickness		teak	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		950	6	✓	
Plating, Sheathing, material and thickness ..		5	teak 50	✓	
Forecastle Deck.					
Stringer Plate, breadth and thickness		6		✓	
Plating, Sheathing, material and thickness...		6	teak 50	✓	

SHELL PLATING.

SCANTLINGS.						RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. <i>yes, exc. keel pl.</i> State if joggled?			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches. <i>mm.</i>	Inches. <i>mm.</i>	Inches. <i>mm.</i>	Inches. <i>mm.</i>		Inches.	Inches. <i>mm.</i>		Inches.	Inches.		
Flat Plate Keel.....	<i>420</i>	<i>16</i>	<i>16</i>	<i>10</i>	<i>✓</i>	<i>D</i>	<i>5/8</i>	<i>63</i>	<i>✓ ew</i>			
„ Dblg. (if any)	—	—	—	—								
Bottom Plating, No. of Strakes	<i>A 1500</i>	<i>9</i>	<i>7</i>	<i>7</i>	<i>✓</i>	<i>S</i>	<i>5/8</i>	<i>63</i>	<i>✓ ew</i>			
Bilge Plating, No. of Strakes	<i>B 1500</i>	<i>7 1/2</i>	<i>7</i>	<i>7</i>	<i>7-7-7</i>	<i>S</i>	<i>5/8</i>	<i>63</i>	<i>✓ ew</i>			
Side Plating, No. of Strakes												
Upper Deck, Sheer- strake in Wells.....	<i>D 1450</i>	<i>8</i>	<i>12 1/2</i>	<i>7</i>	<i>✓ 8-12-7</i>	<i>S</i>	<i>5/8</i>	<i>63</i>	<i>✓ ew</i>			
Upper Deck, Sheer- strake in Bridge	<i>D 1450</i>	<i>12 1/2</i>	<i>8</i>	—	<i>12-8</i>	<i>S</i>	<i>5/8</i>	<i>63</i>	<i>✓ ew</i>			
Strake below Sheer- strake in Wells.....	<i>E 1300</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>✓</i>	<i>S</i>	<i>5/8</i>	<i>63</i>	<i>✓ ew</i>			
Strake below Sheer- strake in Bridge	<i>E</i>	<i>7</i>	<i>7</i>	—	<i>✓</i>	<i>S</i>	<i>5/8</i>	<i>63</i>	<i>✓ ew</i>			
Poop Side Plating.....	—	—	—	—								
Bridge Side Plating.....	—	<i>6</i>	<i>6</i>	—	<i>✓</i>	<i>ew</i>	—	—	<i>ew</i>			
Forecastle Side Plating	—	<i>6</i>	<i>6</i>	—	<i>✓</i>	<i>ew</i>	—	—	<i>ew</i>			

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—
 Extending to Upper Deck (Sec. 3 c) 6 (5) ✓
 „ Deck next below —
 As per Rule 4

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	—	—	—	
STEM	plate	9" x 6" x 60 yard		
STERN	F	130 x 65 de fangh		
FRAME	—	—	—	
Propeller Post				
Rudder	—	—	—	
Speed of Vessel		11 knots		shearing
RUDDER—Type		balanced with bottom		
" A x D		21.01		
" Diam. of head	F	135/84 de fangh		
" Mainpiece at top pintle	—	—		
" heel		90 de fangh		
" how constructed		ew		
" double or single plate	D	8		
" coupling, vertical or				
" horizontal	H			

			STIFFENERS.				
			Plating Thickness.	VERTICAL.		HORIZONTAL.	
				Scantlings.	Spacing.	Scantlings.	Spacing.
			<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>
MIDSHIP	BULKH'D,	Upper 'tween decks					
"	"	Second fr. " 27	7-6	5.65.50.65	500	✓	—
"	"	Third " 42	7-6	5.65.50.65	500	✓	—
"	"	Holds " 60	7-6	5.65.50.65	480	✓	—
COLLISION	"	(in Hold) " 66	7-6	5.100.50.7	600	✓	Chain locker
AFTER PEAK	"	" " 7	22-6	5.65.50.65	550	✓	Flat 65 x 6

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) <i>open hearth process</i> <i>Plates: N.V. Kon. Ned. Hoogovens; Hüttenwerk Oberhausen; Usines Gustave Boëh.</i> <i>Sections: Hütten Union A.G.; Bairds & Scottish Steel Ltd.; Usines Métallurgiques</i> Has the Steel been tested as required by the Rules? <i>yes</i> <i>J du Hainaut</i>
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OCT 1953

EQUIPMENT No. 3883 LETTER C (red) ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY Table 53, Plan	Description of Anchor.	Makers.	Where and when tested, and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.				
73929	1st Bower	5	1	25	✓	—	—	7	16	1	0	270 kg	Hall's type	Isaiah	IPH-CH 23.12.52
73928	2nd "	5	1	21	✓	—	—	7	16	1	0	270 kg	with cast steel lead.	Preston Ltd	H. Phillips
73933	3rd "														
	Collective weight														H. Phillips
	Stream	1	3	4	—	1	24	4	9	0	81	90 kg excl. stock	Don. stock type	"	IPH-CH 23.12.52

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.	Stagn.	Break.	Supplied.	Per Rule.	Cwts.	Length.	Diam.					Length.	Ins.	Tons.	Length.	Ins.
4596	350	21	12600	19000	3583 kg	✓		2x125	21	stud.	Adhemar Demanet	Gosselies (Belgium)	WINE	135	2 1/4	10.8	75	2 1/4
												6.53; AVH.	HAWSERS & WARPS					
Iron Stream Chain or Steel Wire	82 1/2	2"			132			82 1/2	2"	6x12	✓							

Steering Gear, Type (Power or hand) Land hydraulic Alternative Means of Steering Lackles
Steering Chains (Size and Test) — Windlass el. driven Boats 2 wood
Ceiling in Holds, thickness and material 40 mm teak Cargo Battens, thickness, material and spacing 40 mm wood; 100
Cargo Hatchways.—(Upper Deck) two (incl. one on fore) Thickness of Hatches 60 mm (on fore 6" steel)
Hatchways No. 1 (Fwd.) 1.20 x 1.20 No. 2 2.00 x 1.80 No. 3 — No. 4 — No. 5 — No. 6 —

of Shifting Beams }
Fore and Afters }

Builder's Signature

COMM. VENNOOTSCHAP
Scheepswere en Gashouderbouw
JONKER STANS

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 no The positions in which oil is carried as fuel or cargo should
indicated, together with the flash point (where required to be inserted in the Notation).
This ship has been built under Special Survey in conformity with the Society's
Rules and Regulations and Secretary's letters. The scantlings and
arrangements of the ship are as given in the report and as shown and
indicated on the approved plans now forwarded. All modifications
proposed to the original approved arrangements made during
construction have been indicated on the plans and have been approved
being in accordance with, or by standards equivalent to, the
Society's requirements. The plans of midship section and profile and
plans showing the ship as built, now forwarded herewith, have
been checked with the approved arrangements and found in order.
The watertight bulkheads have been hose tested and all tanks
tested under pressure and found tight. Steering arrangement and windlass
tested under working conditions and found to satisfaction.

The amount of Entry Fee..... £ 825.00
Special Survey Fee..... £ : :
Travelling Expenses, if any £ 92.50

Fees applied for,
7.10.1953
Received by me,
19

(Special notations, where part of class, to be stated.)

I am of opinion the Vessel should be Classed 100 A1 for
service in the Indonesian Archipelago.

State whether the Vessel has been built under Special Survey yes
Certificate sent to Roth: off: Date of issue 13/1/54

Signature [Signature]
Surveyor to Lloyd's Register of Shipping.

Committee's Minute THURSDAY 5 NOV 1953
Character assigned Deferred for Examination.

FRIDAY 18 DEC 1953
See Dja Rpt 8 N° 392921

Write Djk.

0026 m

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.)

Sister vessel of m.v. "BENDALU", "BAJAN"; further with minor alterations of m.v. "BLIBIS", "BANGO", "BEO", "BETTET", "BABUT".

Construction plans } (scantlings in accordance with former approved
Midship section } plans, Rotterdam 20-11-54).

For other plans please see sistervessels.

Certificates attached.

Iturin ship certificate, dated 22-8-'53, Rotterdam.

Cert. of stern frame, dated Rotterdam 16-12-'52

rudder complete, dated Rotterdam 20-8-'53 (N° 16991)

David, dated Rotterdam, 21-3-'53 (N^o 15307)

Boatwrench, dated Rotterdam, 31-7-53

PARTICULARS OF ELECTRIC WELDING (if employed)

Butts of shell plating; butts and seams of decks; double bottom; bulkheads with stiffeners; engine seat; stern frame and rudder; stem; beams; main deck to shell in way of superstructure.

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

Cruiser stern
Part en.

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 3.0 23; AEG; Sunderland Cert. N° 7017; 6-11-'52
2nd " 3.1 4; " ; " N° 7034; 13-11-'52
3rd " " ; " ; " "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop — ft., R.Q.D. — ft., Bridge 32.8 ft., Forecastle 14.9 ft.

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

Official No. _____ Signal Letters PKAY Extreme Breadth over Belting _____ Over-all Length 125.3
(Circ. 1611) (Circ. 1703)

No. and Material of Decks.

Parts of Bottom of Vessel coated with cement or approved composition.

bottoms with bitumastic; oil fuel tanks oiled; cofferdams with bitumastic
Particulars of composition (if fitted) and of approval fresh water tanks with Cement wash.

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.	Feet. m^3		Feet.	Tons.
Double bottom, aft, <i>25'</i>	<i>13.7</i>	<i>8.76</i>	Fore peak tank, <i>dry tank</i>	—	—
Double bottom, under Engines and Boilers,	—	—	After peak tank,	—	—
Double bottom, if under Engines only, <i>of or ball.</i>	<i>19.7</i>	<i>16.90</i>	Deep tank, aft, <i>fat in d.b.</i>	<i>26.03</i>	<i>m^3</i>
Double bottom, if under Boilers only,	—	—	Deep tank, forward,	—	—
Double bottom, forward, <i>30'</i>	<i>18.0</i>	<i>13.51</i>	Other tanks, if fitted, <i>oil fuel only</i>	<i>16.7</i>	<i>m^3</i>
Total length (if continuous) and Capacity	<i>78.7</i> ✓	<i>39.17</i>	(If necessary furnish further information by sketch.)		

Order for Special Survey No. 1

Date 13-6-52

Dates of Surveys
held while building

1952. 18. 19-9; 6. 25-11; 1. 15-12

1953: 6, 23-1; 16-2; 6, 12, 21-3; 9, 22-4; 13, 16, 20, 22,
27, 29-5; 4, 11, 16, 18, 30-6; 7, 8, 11, 27-7; 4, 7, 10,
18, 24-8.

Total No. of Visits 35