

STEEL STEAMER ~~MOTORSHIP~~

Received at London Office 16 MAR 1936

State if Report has been sent on the Freeboard of the Vessel **YES**State if Report is sent on the Machinery of the Vessel **YES**

Benin Palm

Date of completion of report 23rd MARCH 1936 Port of BREMEN

No. 1780

Survey held at WEIERMÜNDE Date First Survey 18th MAY 1935 Last Survey 7th MARCH 1936

On the (State if Machinery fitted Aft and (if Single, Twin or Triple Screw) STEEL SINGLE SC. STEAMER "ETHIOPIAN"

State Type (Full scantling, Complete superstructure with or without Tonnage Openings) COMPLETE SUPERSTRUCTURE WITH TONNAGE OPENINGS State Type of Erections SHELTERDECK AND OPEN FORECASTLE.

TONNAGE under 4446.54
Tonnage Deck...

CLASS * 100 A1

LLOYD'S A & C.P. CRUISER STEEL

RUDDER ELECTRICALLY WELDED.

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) L 400.76

Breadth (greatest moulded) B 57.50

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 33.67

1st Longitudinal Number (L x D) = 13.493

2nd Numeral L x (B + D) = 36.537

Framing Depth "d," at middle of length. See Sec. 3 (1d) 22.19

Proportions—Depth to Length—Uppermost continuous deck to top of keel 21.2

Do. Long Bridge to top of keel

Draught Moulded 23.76

Built at WEIERMÜNDE

Launched 17th DECEMBER 35 Yard No. 896

Builders DEUTSCHE SCHIFF- & MASCHINENBAU A.G. WERK SEEBECK.

Owners UNITED AFRICA CO. LD.

Managers

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

Residence LONDON

Port of Registry LIVERPOOL

If surveyed while building, afloat, or in dry dock

WHILE BUILDING AND Afloat SURVEYED

REGISTERED DIMENSIONS.

FEET.

Length 417.5

Breadth 57.7

Depth 23.60

FRAMES, DOUBLE BOTTOM AND BEAMS.

	IN SHIP.	Any Departure from Approved Plans to be Noted.		IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	770		Bracket Floors, Frame	230 90 12	
" " from $\frac{3}{8}$ length to Collision bulkhead.....	685		" " Reversed Frame	230 90 11	
" " in peaks.....	610		" " Vertical Struts	380 80 10	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	1060 13	
Frame Amidships, Angle, E or F	280 90 14.5		" " top Angles	90 90 11.5	
" " Extends up to	2 nd DECK		" " bottom Angles	100 100 13	
Reversed Frame Amidships, Angle	NONE		Side Girders, No. each side and thickness	ONE 9	
" " Extends up to...	✓		Margin Plate depth (excl. of flange) and thickness, FLAT BAR	900 13	
Depth of Framing Girder	280		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{2}$ len. from stem FLAT BAR	90 10.5	
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	200 90 10		" " Vertical Angle to Tank side Bracket forward $\frac{1}{2}$ len. from stem	130 11.5	
" " Second 'tween Decks, Angle, E or F	✓		" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem.....	CONTIN. 10	
" " Third " " " "	✓		" " Gussets, spacing and scantling forward $\frac{1}{2}$ len. from stem.....	" 10	
Framing in Peaks, Angle or F	180 75 9.5		Tank Side Brackets, height above base line at toe of Frame and thickness	1650 10	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	22 65-7d		INNER BOTTOM PLATING.		
State if Frame Joggled	NO		Breadth and thickness of Middle Line Strake	2150 12.5	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	3 STEERS OF BEAMS 4 SIDE STRAINERS 18" 6" APART ON 0.15L FROM STEM AND REVERSE FRAMES ON ALL FRAMES 1" 1" 320		Thickness of remainder in Holds	10.5	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	3 BOTTOM STRAKES OF 16" THICKNESS SINGLE BOTTOM FRAMES DOUBLE RIVETED, EXTRA INTERMEDIATES		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	
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	✓		Uppermost Continuous Deck, amidships, SHELTERDECK	250 90 10.5	
Height of Brackets at side above base line at toe of frame	✓		" " in way of Bridge, Angle, E or F	✓	
Middle Line Keelson, on Floors, Angles, E or F	✓		Spacing	770	
" " Through Plate or Intercoastal Plate... ..	✓		Second Deck, amidships, FLAT BAR DECK	340 100 14.5	
" " Foundation Plate on Floors	✓		Spacing	770	
" " Flat Plate Keel Angles	✓		Third Deck, amidships, Angle, E or F	✓	
Side Keelsons, No. each side	✓		Spacing	✓	
" " thickness of Intercoastal Plate... ..	✓		Fourth Deck, amidships, Angle, E or F	✓	
" " Angles	✓		Spacing	✓	
DOUBLE BOTTOM.			Poop Deck, Angle, E or F	✓	
Solid Floors, thickness and spacing	10 2310		Spacing	✓	
" " Are Frame and Reversed Frame joggled?	YES		Bridge Deck, Angle, E or F	✓	
Bracket Floors, breadth and thickness at middle line	950 10		Spacing	✓	
" " breadth and thickness at margin plate.....	940 10		Forecastle Deck, Angle, E or F	180 75 11	
			Spacing	610 ~ 685	

PILLARS AND DECKS.

	m/in	IN SHIP.	Any Departure from Approved Plans to be Noted.	m/in	IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS , No. of Rows.....	ONE					
" in 'tween Decks, Size and Spacing.....	65-80 DIAMR	1220-4270 SPACING				
" " " " "		✓				
" in Holds	NONE					
" " " " "		✓				
Centre Line Bulkhead.						
Stiffeners and Spacing.....	{ 300 90 13					
TWO FRAME SPACES APART = 1540 mm	{ 280 90 13					
	{ 250 90 13					
	{ 200 90 11					
	{ 180 90 9					
Plating, thickness of	9.5%					
STRINGERS AND DECKS.						
Uppermost Continuous Deck.						
Stringer Plate, breadth and thickness in W.P.	1550	16				
" " " " in way of Bridge		✓				
" Angle in Wells	150	150 16.5				
Thickness of Plating abreast Deck openings in way of Well	12					
Thickness of Plating abreast Deck openings in way of Bridge	✓					
Thickness of Plating within line of openings...	9.5					
If Sheathed, material and thickness	No					
Second Deck.						
Stringer Plate, breadth and thickness in W.P.	2020	10				
Stringer Plate, breadth and thickness in way of Bridge		✓				
Thickness of Plating abreast Deck openings in way of Bridge		✓				
Thickness of Plating within line of openings...	9.5					
If Sheathed, material and thickness	No					
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.....	900	9				
Plating, Sheathing, material and thickness { PLATING = 8.5						
SHEATHING = TEAK 2 1/2"						

SHELL PLATING.

SCANTLINGS.						RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if joggled? <i>16</i>			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.	
FLAT PLATE KEEL	<i>1288</i>	<i>19</i>	<i>16.5</i>	<i>16.5</i>	<i>✓</i>	<i>DOUBLE</i>	<i>25</i>	<i>100</i>	<i>FOUR</i>	<i>25</i>	<i>90</i>	<i>LAPPED</i>
„ DBLG. (if any)	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>
BOTTOM PLATING, No. } of Strakes .3.....	<i>2180</i>	<i>14.5</i>	<i>16</i>	<i>12</i>	<i>✓</i>	<i>DOUBLE</i>	<i>22</i>	<i>88</i>	<i>THREE</i>	<i>22</i>	<i>77</i>	<i>LAPPED</i>
BILGE PLATING, No. of } Strakes .2.....	<i>2020</i>	<i>14.5</i>	<i>11.5</i>	<i>11.5</i>	<i>✓ See</i>	<i>"</i>	<i>22</i>	<i>88</i>	<i>"</i>	<i>22</i>	<i>77</i>	<i>"</i>
SIDE PLATING, No. of } Strakes .2.....	<i>2200</i>	<i>15.5</i>	<i>13.0</i>	<i>13.0</i>	<i>✓</i>	<i>"</i>	<i>22</i>	<i>88</i>	<i>"</i>	<i>22</i>	<i>77</i>	<i>"</i>
UPPER DECK, Sheer- } strake <i>in Wall</i>	<i>1650</i>	<i>16.5</i>	<i>11.5</i>	<i>11.5</i>	<i>✓</i>	<i>"</i>	<i>22</i>	<i>88</i>	<i>FOUR</i>	<i>22</i>	<i>77</i>	<i>"</i>
UPPER DECK, Sheer- } strake <i>in Bridge</i> ...	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>
STRAKE BELOW Sheer- } strake <i>in Wall</i>	<i>1860</i>	<i>16</i>	<i>11.5</i>	<i>11.5</i>	<i>✓</i>	<i>DOUBLE</i>	<i>22</i>	<i>88</i>	<i>FOUR</i>	<i>22</i>	<i>77</i>	<i>LAPPED</i>
<i>2nd</i> STRAKE BELOW Sheer- } strake <i>in Bridge</i> ...	<i>2000</i>	<i>14.5</i>	<i>11.5</i>	<i>11.5</i>	<i>✓</i>	<i>"</i>	<i>22</i>	<i>88</i>	<i>THREE</i>	<i>22</i>	<i>77</i>	<i>"</i>
POOP SIDE PLATING	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>
BRIDGE SIDE PLATING ...	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>
FOREO'TLE SIDE PLATING	<i>1230</i>	<i>✓</i>	<i>10.5</i>	<i>✓</i>	<i>✓</i>	<i>SINGLE</i>	<i>19</i>	<i>76</i>	<i>DOUBLE</i>	<i>19</i>	<i>76</i>	<i>LAPPED</i>

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) ONE

Deck next below *✓x*

As per Rule *YES, AS APPROVED.*

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	✓	✓	✓	✓
STEM ELECTRICALLY WELDED	S.M. STEEL	AS PER APPROVED PLAN	SEEBECK	
STERN FRAME { Propeller Post	CASTING	AS PER APPROVED	J. SCHIOHAA	
{ Rudder	CASTING	PLAN	G.M.B.H. ELBING.	
RUDDER—A × D	FEET	476.5		
Speed of Vessel		10 KNOTS		
RUDDER mainpiece at head ...	}	SEEBECK RUDDER		
" " heel ...		ELECTRICALLY WELDED		
" how constructed		AS PER APPROVED PLAN		
" double or single plate		DOUBLE PLATES		
" coupling, vertical or horizontal		COUPLING HORIZONTAL		

STIFFENERS.

		Plating Thickness. <i>m</i>	VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks		✓	✓	✓	✓	✓
"	" Second "	✓	✓	✓	✓	✓
"	" Third "	✓	✓	✓	✓	✓
"	" Holds	10~6.5	5300x90x13 5280x90x14	760	✓	✓
COLLISION		" (in Hold)	12~8	5340x100x12 5230x90x10	610	✓
AFTER PEAK		"	20~7.5	5230x90x10 5190x75x11	640	✓

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture). OPEN HEARTH PROCESS.

STEEL. DORTMUND - HOERDER HÜTTENVEREIN A. G.; AUGUST-THYSSEN-HÜTTE A. G.; RUHRSTAHL-AKTIE-GESELLSCHAFT
HENRICHSHÜTTE HATTINGEN (RUHR); DILLINGER HÜTTENWERKE, DILLINGEN - SAAR.

Has the Steel been tested as required by the Rules? *YES, BY THE SOCIETY'S SURVEYORS.*

