

STEEL STEAMER or MOTORSHIP.

Received at London Office

JAN 31 1939

State if Report has been sent on the Freeboard of the Vessel NoState if Report is sent on the Machinery of the Vessel YesDISCLOSED
SECTION

Date of completion of report

Survey held at DANZIGJanuary 1939 Port of DANZIGDate First Survey 12th July 1937No. 154Last Survey 12th January 1939

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw)

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings)

Special Type

State Type of Erections Bridge & ForecastleTONNAGE under Tonnage Deck... 5188.455CLASS 100A1 Hopper Dredger State if with freeboard as condition of Class NoBuilt at DANZIG

Do of space or spaces between Tonnage Dk. and Upper Dk.

Total 5188.455Length from fore part of stem to after part of stern most on summer L.W.L. See Sec. 3 (1a) 400.0Breadth (greatest moulded) 62.5Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) 28.51st Longitudinal Number (L x D) = 114002nd Numeral L x (B + D) = 36400Framing Depth "d," at middle of length. See Sec. 3 (1d) 14.0Proportions—Depth to Length—Uppermost continuous deck to top of keel Do. Long Bridge to top of keel 18.0Draught Moulded 18.0Launched 2nd April 1938 Yard No. 1400Builders F. Schichau S. m. b. H.Owners Whangpoo Conservancy BoardManagers ✓

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

Residence ShanghaiPort of Registry Shanghai

If surveyed while building, afloat, or in dry dock

While building afloat and in dry dock

FRAMES, DOUBLE BOTTOM AND BEAMS.

	mm IN SHIP.	Any Departure from Approved Plans to be Noted.		mm IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	685		Bracket Floors, Frame	Angle 75 90 10	
" " from $\frac{3}{4}$ length amidships to Collision bulkhead	685		" " Reversed Frame	Angle 75 75 10	
" " in peaks	610		" " Vertical Struts	✓	
DE FRAMING.	280 90 12		Centre Girder, depth and thickness amidships		
Frame Amidships, Angle, E or [IN B. SP.	280 90 13.5		" " top Angles		
" " Extends up to	Upper Deck		" " bottom Angles		
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness		
" " Extends up to			WING TANK IN HOPPER		
Depth of Framing Girder	280		Margin Plate depth (excl. of flange) and thickness	13 AT BOTTOM 11.5 AT TOP	
Frames in Uppermost Continuous 'tween Decks, Angle, E or [	✓		" " Vertical Angle to Tank side		
" " Second 'tween Decks, Angle, E or [	✓		Bracket abaft $\frac{1}{4}$ len. from stem		
" " Third " " " "	✓		" " Vertical Angle to Tank side		
" " from $\frac{1}{4}$ len. for'd. to 15% len. from Stem	280 90 12		Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area		
" " in Peaks, Angle or [	180 75 8.5		Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	See letter 6.2.29		" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area		
State if Frame Joggled	No		Tank Side Brackets, height above base line at toe of Frame and thickness		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	Yes		INNER BOTTOM PLATING.		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes		Breadth and thickness of Middle Line Strake	✓	
DOUBLE BOTTOM.	IN FWD. HOLD IN B. SP.		Thickness of remainder in Holds	9	
Floors, Depth and thickness at mid-line in Holds	940x12.5 940x15		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	
Height of Brackets at side above base line at toe of frame	1880		BEAMS.		
Middle Line Keelson, on Floors, Angles, E or F	150x90x12 150x90x15.5		Uppermost Continuous Deck, amidships in Wells, Angle, E or [	200 90 12.5 230 90 11	
" " Through Plate or Intercoastal Plate	1090x11 1090x15		" " in way of Bridge, Angle, E or [	200 75 9 230 90 11	
" " Foundation Plate on Floors	300x12.5 300x15		Spacing	685	
" " Flat Plate Keel Angles	100x100x13.5 100x100x16		TWEEN FORWARD Second Deck, amidships, Angle, E or [	280 90 13.5	
Side Keelsons, No. each side	One full Two partial One		Spacing	1370	
" " thickness of Intercoastal Plate	10.5 13		TWEEN AFT Third Deck, amidships, Angle, E or [	230 90 11	
" " Angles	AT TOP DEL. 150x90x10 150x90x15.5 AT BOT. 75x75x10.5 90x90x12.5		Spacing	685	
DOUBLE BOTTOM. IN HOPPER WINGS			Fourth Deck, amidships, Angle, E or [✓	
Solid Floors, thickness and spacing	10 ON EV. FR.		Spacing	✓	
" " Are Frame and Reversed Frame joggled?	No		Poop Deck, Angle, E or [✓	
Bracket Floors, breadth and thickness at middle line			Spacing	✓	
" " breadth and thickness at margin plate			Bridge Deck, Angle, E or [(Fr. 17/6 39)	150 75 8 685	
			Spacing	685	
			Forecastle Deck, Angle, E or [	200 75 9 685 610	
			Spacing	610	

2/1110-91546-017 1/2

015405-01546-017 1/2

PILLARS AND DECKS.

		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.			INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows.....							
"	in 'tween Decks, Size and Spacing.....						
"	" " " " "						
"	in Holds " "						
"	" " " " "						
Centre Line Bulkhead.							
Stiffeners and Spacing.....							
Plating, thickness of							
STRINGERS AND DECKS.							
Uppermost Continuous Deck.							
Stringer Plate, breadth and thickness in Wells							
<i>DOUBLE L. W. OF HOPPERS</i>							
" " " " in way of Bridge							
<i>AFT</i>							
" Angle in Wells							
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							
Second Deck. (TWEEN 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.....							
Plating, Sheathing, material and thickness ...							

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? <i>Yes</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.	
	Inches.	Inches.	Inches.	Inches.								
FLAT PLATE KEEL	1250 A	19.5	19.5	19		Double	22	86	4	25	100	Lapped
„ DELG. (if any)												
BOTTOM PLATING, No. of Strakes	2155 B 2177 C 1975 D 1880 E	15 16 16 15	16.5 16.5, 13 16.5, 14 14	13, 14, 15 13 13 13, 15		Double	22	86	3	22	80	Lapped
BILGE PLATING, No. of Strakes	2067 F 2200 G	15 15	14.5 11	14 12.5, 15		"	"	"	"	"	"	"
SIDE PLATING, No. of Strakes	2360 H	15, 14.5	11	11		"	"	"	"	"	"	"
UPPER DECK, Sheer-strake in Wells	1450 K	25	11	11		"	25	98	5	28	125	"
UPPER DECK, Sheer-strake in Bridge				K 21, 19, 13		"	22	86	4 3	25 22	100 80	"
STRAKE BELOW Sheer-strake in Wells	2200 J	20	11	11		"	22	86	4	25	100	"
STRAKE BELOW Sheer-strake in Bridge				J 18, 15, 14		"	"	"	3	22	80	"
POOP SIDE PLATING												
BRIDGE SIDE PLATING						Single	16	65	①	16	55	Lapped
FORE'TLE SIDE PLATING						"	19	75	1	19	65	"

The upper deck sheerside has been doubled on port side. Not frame 119 & 131, on starb. side 1st frame 119 & 134, on port side side str. 119 & 134, on starb. side str. 119 & 134. The end corners at bottom of center well have been doubled as required. The port & starb. bottom plate in strake B between frs. 86 & 96 has been increased to 24 mm. in thickness in lieu of double-logs.

** BOSS PLATING 17 mm*

WATERTIGHT BULKHEADS.

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

FORGINGS and CASTINGS.

	Casting or Forging.	Scandlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	✓	✓	✓	✓
STEM		PLATE	STRUCTURE	
STERN FRAME { Propeller Post	✓	✓	✓	✓
{ Rudder "	CASTING	TO PLAN	SCHICHAU, ELBING	✓
Speed of Vessel		12 KNOTS		
RUDDER—Type		STREAM LINE TYPE		
" A x D				
" Diam. of head	FORGING	303	SCHICHAU, ELBING	
" ARM AT TOP Main piece at top pintle	CASTING	TO PLAN	- do -	✓
" " BOTTOM " " keel	"	" "	- do -	✓
" how constructed		HOLLOW PLATE BODY. TWO ARMS. ELECTRICALLY WELDED		
" double or single plate	DOUBLE	14		
" coupling, vertical or horizontal	HORIZONTAL			

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks						
"	"	Second	"			
"	"	Third	"			
"	"	Holds				
COLLISION		"	(in Hold)	.....	
AFTER PEAK		"	"	.....	

PLEASE SEE LAST PAGE
OF THIS REPORT

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) August Thyssen-Hütte, Ruhrort/Meiderich
August Thyssen-Hütte, Werk Thyssenhütte, Deutsche Rohrewerke Achenen, Mülheim (Ruhr) Dortmund-Hörder Hüttenverein Achenen, Dortmund & Hörde, Lütchtingshütte
Neu-Oberhausen, Oberhausen & Schwerte-Ruhr, Hohsche Werke Achenen, Duisburg-Essenbauern, Mannesmannröhren-Werke, Duisburg-Huckingen, Solmischen-Schalke & Rath
 Has the Steel been tested as required by the Rules? Yes

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.)

PILLARS

WATERTIGHT BULKHEADS (Dimensions in mm)

PILLARS			WATERTIGHT BULKHEADS (Dimensions in mm)					
POSITION	NO. OF ROWS	SCANTLING IN mm	POSITION.	PLATING THICKNESS	VERTICAL STIFFENERS		HORIZONTAL STIFFENERS	
					SCANTLINGS	SPACING	SCANTLINGS	SPACING
MAIN ENG. ROOM			FR. 9. A. PEAK. IN TW. DK. WINGS	7/16	130 x 4	760		
			BET. FR. 9 & 14 A.P. LONG L. TW. DKS.	7/16	130 x 4	760		
Frames 23 & 29	2	292 x 10 seamless hollow ✓	FR. 14. A.P. TANK. TO TWEEN DK	15 to 7/16	280 x 90 x 12 & 150 x 75 x 9, 5	610	GIRD. PLT. 380 x 9.5. FACE 200 x 13.5	3800 AB. TOP OF KEEL
Frame 36	3	292 x 10 " " ✓						
PUMP ENG. ROOM			FR. 41. ENG. ROOM. TO UPP. DK	12.5 to 7/16	1340 x 100 x 15 & 320 x 100 x 14 x 13.5	875 to 695	FLAT BARS 1. TOP POCKETS 90 x 10	610
			" " IN BUNKERS. TO UPP. DK	" " "	1240 x 11 & 180 x 11	610	FLAT BAR 150 x 8	1210 AB. TOP OF KEEL
Frames 133, 138 & 144	2	292 x 10 seamless hollow ✓	FR. 71. BOILER ROOM. TO UPP. DK	12 to 10	1280 x 90 x 12	825 to 585	- AFT -	
					1250 x 90 x 11 WITH FACE 75 x 10		GIRD. PLT. 685 x 10. FACE 250 x 17	4100 AB. TOP OF KEEL
					1250 x 90 x 11		- FRWD. -	
					1230 x 90 x 11 WITH FACE 75 x 10		PART GIRDER BET. INNER HOPP. BHDS.	" " " " "
FORWD. HOLD :					1180 x 90 x 8.5	850	GIRD. PLT. 685 x 10. FLG. 300	
Frame 159	2	267 x 9.5 seamless hollow ✓	FR. 71. IN WING RECESS. TO UPP. DK	11 to 9	1180 x 90 x 8.5		GIRD. PLT. 685 x 10. FLG. 230	" " " " "
TWEEN DK. AFT :								
			FR. 125. PUMP ENG. R. TO UPP. DK	12 to 10	1280 x 90 x 12. 1250 x 90 x 11	780 to 528	IN WAY OF DREDG. PIPE OPENINGS:	
Frames 2 & 4	1	65 solid			1230 x 90 x 11		1300 x 90 x 13. 1250 x 90 x 11 & 1230 x 90 x 11	
Frame 6	1	108 x 8 seamless hollow ✓			1180 x 90 x 9.5	850	- FRWD. -	
					1180 x 90 x 8.5 IN HOPP. WINGS		GIRD. PLT. 685 x 10. FACE 250 x 17	4100 AB. TOP OF KEEL
TWEEN DK. FORWARD :							PART GIRDER BET. INNER HOPP. BHDS.	
			FR. 149. FORE HOLD. TO UPP. DK	12.5 to 7/16	1300 x 90 x 13 & 250 x 90 x 13 & 230 x 90 x 11	875 to 575	GIRD. PLT. 685 x 10. FLG. 300 - AFT -	
					AB. TW. DK. 1140 x 65 x 9. 1130 x 65 x 8		90 x 10 FL. BARS 1. W. OF 875 SPACG.	
Frames 142 & 145	1	60 solid						
FORECASTLE :								
			FR. 170. COLL. BHD. TO UPP. DK	12.5 to 6.5	1320 x 100 x 13 & 280 x 90 x 12 & 250 x 90 x 12	540 to 530		
					1180 x 75 x 8.5			
					AB. TW. DK. 1130 x 6 & 130 x 7	600 to 550		
Frame 146	2	70 solid						
" 148	1	70 "						

✓ Pillars of high tensile strength. Test certificates attached

APPROVED PLANS (sent under sep. cover)

Date of approval	Number	Item
24.2.34	H 4464	Midship section
24.2.34	H 4494	Longitudinal plan of scantlings
2.3.34	H 4808	Transverse bulkheads
13.3.34	H 4820	Main engine seatings
13.3.34	H 4814	Pump. Eng. R. seatings
16.3.34	H 4824	Section forward
19.3.34	H 4832	Shell expansion
25.3.34	H 4851	Cont. fr. hopper to bunker long. bds.
25.3.34	H 4853	Stem
28.4.34	H 4901	Stem post
28.4.34	H 4903	Rudder
14.5.34	H 4942	Propeller brackets
15.4.34	H 5058	Tween deck bulkheads aft
22.10.34	H 5205	Sea deck

PARTICULARS OF ELECTRIC WELDING (if employed) Floors with centre girder & side girders; engine seatings; seams, bulks and connections to shell & hopper sides of tank top plating; Plating of transverse bulkheads, bunker bulkheads, hopper sides, central well and casings; Part of bulkhead stiffeners; casing stiffeners; Sides of houses & stiffeners; Tween deck plating; Bulks of upper deck at ends; Deck girders; Side stringers; Stem plating & connections, bilge keels & rudder; Anticreep beams in way of hoppers; Hatchway coamings & trunk with stiffeners & connections; Ventilation coamings & connections; Pillar connections at top & bottom have been electrically welded. The Rule require ments for the Application of Electric Arc Welding to Ship Construction have been complied with. The parts of primary importance have been welded with Böhler *Böhle K.V.A unclad electrode.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book Mch. aft. (Suchan Hopper Dredger) 1 Dk Lloyd's A + CP

Particulars of Drop Test of Cast Steel Anchors, viz. :— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	WGT. OF HEAD	
	1st Bower	2nd "
	47.3.21 F.S. 25 16.12.34	47.1.21 F.S. 26 16.12.34
	46.1.10 F.S. 24 16.12.34	46.1.10 F.S. 23 16.12.34
	STREAM	15.3.8 F.S. 23 16.12.34

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. ft., Bridge 49.47 ft., Forecastle 28.16 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 62.83' Over-all Length 413.82' No. and Material of Decks 1 Deck, Steel Parts of Bottom of Vessel coated with cement or approved composition Bottom in way of peak tanks, feed water tanks, forward cargo hold, inner hopper spaces & watertight compartment abaft pumping engine room coated with cement. Bottom in way of machinery spaces & bunkers coated with bitumastic 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,		101.14
Double bottom, under Engines and Boilers,			After peak tank,		231.43
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, Port & starb. feed water tanks in way of hopper.	139.34	254.86
Total length (if continuous) and Capacity			(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 14 Dates of Surveys held while building 1937 July 12, 27 Aug. 5, 9, 18, 24, Sept. 1, 6, 14, 21, 28 Oct. 5, 7, 12, 14, 21, 27, 28 Nov. 1, 5, 8, 9, 16, 26 Dec. 3, 10, 17, 29 1938 Jan. 7, 13, 24, 28, Feb. 8, 17, 18, 25, 26 Mar. 1, 2, 3, 4, 8, 12, 12, 15, 16, 17, 18, 19, 21, 23, 23, 24, 25, 30, 31, Apr. 2, 6, 8, 14, 19, 29 May 5, 10, 21, 25, 27 June 23, 29 July 5, 13, 13, 14, 16, 23, 28, 30 Aug 4, 5, 11, 25, 30, 31 Nov 7, 8, 10, 11, 25 Dec 20 1939 Jan 12 Total No. of Visits 90