

# PONTOON STEEL STEAMER or MOTORSHIP.

Received at London Office 3 SEP 1931

State if Report has been sent on the Freeboard of the Vessel ✓

State if Report is sent on the Machinery of the Vessel ✓

Date of completion of report

Port of

MIDDLESBROUGH

No.

14474

Survey held at HAYERTON HILL-ON-TEES Date First Survey 24 Nov/30 Last Survey 29 August 1931

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) STEEL PONTOON FOR 60 TON ELECTRIC FLOATING CRANE

State Type (With or without Tonnage Certificate) "FLOATING CRANE N°1" State Type of Erections ✓

TONNAGE under 803.97  
Tonnage Deck...Do. of space or spaces  
between Tonnage Dk.  
and Upper Dk.

Total

Gross Tonnage

Register Tonnage

## REGISTERED DIMENSIONS.

FEET.

Length

Breadth

Depth

CLASS A CRANE PONTOON  
"FOR HARBOUR SERVICE"Length from fore part of stem to after part of stern  
post on summer L.W.L. See Sec. 3 (1a)

Breadth (greatest moulded)

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

1st Longitudinal Number (L x D)

2nd Numeral L x (B + D)

Framing Depth "d," at middle of length. See  
Sec. 3 (1d)Proportions—Depth to Length—Uppermost con-  
tinuous deck to top of keel  
Do. Long Bridge to top  
of keel

Draught Moulded

Built at HAYERTON HILL-ON-TEES

Launched 9-7-31

Yard No. 185

Builders FURNESS S.B. CO. LTD

Owners SOUTH AFRICAN RAILWAYS &  
HARBOUR ADMINISTRATIONManagers  
(Where necessary to be entered in Reg. Book.)

Residence

Port of Registry CAPE TOWN

If surveyed while building, afloat, or in dry dock

WHILE 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	LONGITUD. FRAMING		Bracket Floors, Frame	✓	
" " from $\frac{3}{4}$ length to Collision bulkhead	SEE SEPARATE SHEET		" " Reversed Frame		
" " in peaks	D?		" " Vertical Struts		
SIDE FRAMING.			Centre Girder, depth and thickness amidships	✓	
Frame Amidships, Angle, [ or [	✓		" " top Angles		
" " Extends up to	✓		" " bottom Angles		
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	✓	
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	✓	
Depth of Framing Girder	✓		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem		
Frames in Uppermost Continuous 'tween Decks, Angle, [ or [	✓		" " Vertical Angle to Tank side Bracket forward $\frac{1}{4}$ len. from stem		
" " Second 'tween Decks, Angle, [ or [	✓		" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem		
" " Third " " " "	✓		" " Gussets, spacing and scantling forward $\frac{1}{4}$ len. from stem		
Framing in Peaks, Angle or [	✓		Tank Side Brackets, height above base line at toe of Frame and thickness		
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships	✓		INNER BOTTOM PLATING.		
State if Frame Joggled	✓		Breadth and thickness of Middle Line Strake	✓	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	✓		Thickness of remainder in Holds		
STRENGTHENING OF BOTTOM FOR- WARD. State Particulars	✓		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?		
SINGLE BOTTOM. ENGINE SEATING			BEAMS.		
Floors, Depth and thickness at mid-line in Holds (INTERMEDIATE)	24" x 50		Uppermost Continuous Deck, amidships in Wells, Angle, [ or [		LONGITUDINAL SEE SEPARATE SHEET
Height of Brackets at side above base line at toe of frame	✓		" " in way of Bridge, Angle, [ or [		
Middle Line Keelson, on Floors, Angles, [ or [	✓		Spacing		
" " Through Plate Intercostal Plate	50		Second Deck, amidships, Angle, [ or [	✓	
" " Foundation Plate on Floors	ON TOP OF FLOORS		Spacing		
" " Flat Plate Keel Angles	✓		Third Deck, amidships, Angle, [ or [	✓	
GIRDERS			Spacing		
Side Keelsons, No. each side	ONE		Fourth Deck, amidships, Angle, [ or [	✓	
" " thickness of Intercoastal Plate	24" x 50		Spacing		
" " TOP	6 x 6 x 5		Poop Deck, Angle, [ or [	✓	
" " BOTTOM	3 1/2 x 3 1/2 x 5		Spacing		
DOUBLE BOTTOM.			Bridge Deck, Angle, [ or [	✓	
Solid Floors, thickness and spacing	✓		Spacing		
" " Are Frame and Reversed Frame joggled?	✓		Forecastle Deck, Angle, [ or [	✓	
Bracket Floors, breadth and thickness at middle line	✓		Spacing		
" " breadth and thickness at margin plate	✓				



## 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.
<b>PILLARS, No. of Rows.....</b>			Stringer Plate, breadth and thickness in way of Bridge .....	✓	
"    in 'tween Decks, Size and Spacing.....			Thickness of Plating abreast Deck openings in way of Wells .....	✓	
NON W.T. LONG BULKHEADS P.S. BETWEEN 5-10 BULKHEADS			Thickness of Plating abreast Deck openings in way of Bridge .....	✓	
IN WAY OF CRANE, 10-12. 5 PLATING			Thickness of Plating within line of openings...	✓	
VERT STIFFERS 7-3 1/2 x 5 B.A. 30" APART.			If Sheathed, material and thickness .....	✓	
"    in Holds .....			<b>Third Deck.</b>		
LONG (NON W.T.) " " P.S. BETWEEN 5-10 BULKHEADS			Stringer Plate, breadth and thickness.....	✓	
Centre Line Bulkheads LONG 6-3 x 4 B.A. 28 1/2" APART			If Plated, state thickness.....		
Stiffeners and Spacing.....	28 to 26		<b>Fourth Deck.</b>		
Plating, thickness of .....			Stringer Plate, breadth and thickness.....	✓	
<b>STRINGERS AND DECKS.</b>			If Plated, state thickness .....		
<b>Uppermost Continuous Deck.</b>			<b>Poop Deck.</b>		
Stringer Plate, breadth and thickness in Wells	6 1/2 x 46 40 APP.		Stringer Plate, breadth and thickness .....	✓	
"    "    "    "    in way of Bridge	✓		Plating, Sheathing, material and thickness ...		
"    Angle in Wells .....	4 x 3 x 38		<b>Bridge Deck.</b>		
Thickness of Plating abreast Deck openings in way of Wells .....	30		Stringer Plate, breadth and thickness.....	✓	
Thickness of Plating abreast Deck openings in way of Bridge .....	✓		Plating, Sheathing, material and thickness ...		
Thickness of Plating within line of openings...	✓		<b>Forecastle Deck.</b>		
If Sheathed, material and thickness .....	✓		Stringer Plate, breadth and thickness.....	✓	
<b>Second Deck.</b>			Plating, Sheathing, material and thickness ...		
Stringer Plate, breadth and thickness in Wells...	✓				

## SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	RIVETS.		No. of Rows of Rivets.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			SINGLE OR DOUBLE.	Diam.		Spacing cr. to cr.	Diam.	
FLAT PLATE KEEL .....	53	44	44	44		SINGLE	3/4	3	TREBLE TO DOUBLE	3/4	5/8	LAPPED
"    DBLG. (if any)	84	38	38	38		"	"	"	DOUBLE	"	"	"
BOTTOM PLATING, No. of Strakes .....	87	"	"	"		"	"	"	"	"	"	"
BILGE PLATING, No. of Strakes .....	51	"	"	"		"	"	"	"	"	"	"
SIDE PLATING, No. of Strakes .....	49	"	"	"		"	"	"	"	"	"	"
UPPER DECK, Sheer-strake in Wells.....	57	40	40	40		"	"	"	"	"	"	"
UPPER DECK, Sheer-strake in Bridge ...												
STRAKE BELOW Sheer-strake in Wells.....												
STRAKE BELOW Sheer-strake in Bridge ...												
POOP SIDE PLATING .....												
BRIDGE SIDE PLATING ...												
FORECASTLE SIDE PLATING												

## WATERTIGHT BULKHEADS.

## FORGINGS and CASTINGS.

WATERTIGHT BULKHEADS.				FORGINGS and CASTINGS.			
Total No. of W.T. BULKHEADS in Vessel—				Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
Extending to Upper Deck (Sec. 3 c) <b>FOUR</b>				KEEL, Bar .....	FLAT PLATE.		
"    Deck next below .....				STEM .....	✓		
As per Rule .....				STERN FRAME { Propeller Post .....			
				{ Rudder .....	✓		
				RUDDER—A x D .....			
				Speed of Vessel .....			
				RUDDER mainpiece at head ...	✓		
				"    "    heel ...			
				"    how constructed .....			
				"    double or single plate			
				"    coupling, vertical or horizontal .....			

STIFFENERS.	
VERTICAL.	HORIZONTAL.
Scantlings, Spacing.	Scantlings, Spacing.
FRS. 10-12	
MIDSHIP BULKHEAD, Upper 'tween decks	50 7-3 1/2 x 5 27" APART
IN WAY OF CRANE.	B.A.
CLEAR OF CRANE	26 1/2 x 3 1/2 x 32 29" APART
"    "    Third	FR. 5 32 x 26 5 1/2 x 3 1/2 x 32 29" APART
"    "    Holds .....	B.A.
<b>COLLISION</b> (in Hold) .....	
<b>AFTER PEAK</b> .....	FR. 2 32 x 30 8 x 3 x 35 29" APART
	B.A.

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

**STEEL.** SOUTH DURHAM STEEL & IRON CO. L<sup>td</sup>

CARGO FLEET IRON CO. L<sup>td</sup>

Has the Steel been tested as required by the Rules? **YES**

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Open Register  
Foundation



EQUIPMENT No.										LETTER	ANCHORS.		
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
46165	1st Bower ...	18	0	21	STOCKLESS	19	4	1	14	AS APPROVED	GREEN'S QUICK GRIP	J. GREEN L <sup>td</sup>	CRADLEY HEATH 31-3-31 L.E.P.
46166	2nd " ...	17	3	0	D <sup>o</sup>	18	16	1	0	18	D <sup>o</sup>	D <sup>o</sup>	D <sup>o</sup> 31-3-31 L.E.P.
46264	3rd " ...	12	2	12	D <sup>o</sup>	14	8	1	21	✓	D <sup>o</sup>	D <sup>o</sup>	D <sup>o</sup> 29-4-31 L.E.P.
	Collective weight.	48	2	5						36			
	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.	Diam.	Statu- tory.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.	Length.					Cir.	Length.		Cir.	
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
45802	36	1 5/8	31	46 1/2	32	3	7	AS APPROVED		STUD	J. GREEN L <sup>td</sup>	CRADLEY H. 31-3-31 L.E.P.	TOWLINE...					
45801	36	1 7/8	31	46 1/2	33-0-7			20	36	1 5/8	D <sup>o</sup>	D <sup>o</sup>	D <sup>o</sup>					
45828	36	1 3/8	22 3/4	34 1/8	23-3-9						D <sup>o</sup>	D <sup>o</sup>	CRADLEY HEATH 29-4-31 L.E.P.					
Iron Stream Chain or Steel Wire		Cir.								Cir.			"					
													"					

Steering Gear, Steam		Steering Gear, Hand	
Boats	Steering Chains, Size and Test	Windlass	ELECTRIC CLARKE CHAPMAN & CO. L <sup>td</sup>
Ceiling in Holds, thickness and material	Cargo Battens, thickness, material and spacing		
Cargo Hatchways.-(Upper Deck)	Thickness of Hatches		
Size of No. 1 Hatchway (Forward)	No. 2	No. 3	No. 4
	No. 5	No. 6	
Number of Shifting Beams and/or Fore and Afters			
<div style="text-align: right;">           For FURNESS SHIPBUILDING CO. LTD            Builder's Signature <i>J. M. Goverey</i> DIRECTOR         </div>			

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel YES (b) 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 indicated, together with the flash point.

The vessel has been built in accordance with the approved plan, the Secretary's letter dated 22<sup>nd</sup> July 1930 to 18<sup>th</sup> Dec. 1930 and in general conformity with the Rules and Regulations for the class contemplated.

The vessel is built with longitudinal framing. The trimming tank aft and oil fuel tank have been tested to Rule requirements. The watertight bulkheads and deck have been tested by hose, all with satisfactory results. The electric windlasses at fore and aft ends have been tested under working conditions and found satisfactory. Copies of the profile and deck plan and midship section as built, also copies of the

The amount of Entry Fee .....	£ 4 : 0 : 0	Fees applied for,	2 Sept 1931	I am of opinion the Vessel should be Classed <b>A- "CRANE PONTOON"</b> <b>"FOR HARBOUR SERVICE"</b> <b>WITH THE SPECIAL NOTATION</b> <b>"LONGITUDINAL FRAMING"</b>
Special Survey Fee....	£ 80 : 8 :	Received by me,	1. 10. 1931	
Travelling Expenses, if any £	:			
State whether the Vessel has been built under Special Survey			YES.	Signature <i>Jas. Brighton</i> Surveyor to Lloyd's Register of Shipping.
Certificate to be sent to	<i>Mab</i>	Date of issue	30/9/31	

Committee's Minute **FRI. 11 SEP 1931**

Character assigned **+ A -**

**Crane Pontoon**  
**For Harbour Service**

*W. H. M. Mab*

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Lloyd's Register Foundation

9086  
2/3



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.)

Approved plan as per list below are forwarded herewith.

Mills hips Transverse  
Profile and Deck Plan  
Stepping in way of Crane  
Curves of Buoy along  
Oil Fuel Tank in Trimming Space  
General arrangement  
Arrangement in way of trimming tank aft.

A General Arrangement is also enclosed herewith showing vessel as prepared for voyage to South Africa embodying Board of Trade Requirements for same

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

1st Bower	11 CNTS	1 QR	10 LBS.	D.C.B.	Nº 3225	23-7-29.
2nd "	11 CNTS	1 QR.	14 LBS	A.G.L.	Nº 4362	3-6-29.
3rd "	6 CNTS.	3 QRS.	20 LBS.	M.A.B.	Nº 241.	4-3-27

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☐ ft., Bridge ☐ ft., Forecastle ☐ ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ☒

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 1 DK. STL.

Official No. ; Signal Letters Is bottom of Vessel coated with cement No if not give particulars of composition BITUMASTIC

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. 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, TRIMMING TANK	22'-6"	111
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted, OIL FUEL TANK IN E.R.	13'-6"	21
Total capacity of double bottom			(If necessary, furnish further information by sketch.)		

\* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 1473

Date 14 Nov/30

Dates of Surveys held while building

1930: Apr 24, 25, 26, 27, Dec 1, 2, 5, 8, 10, 12, 15, 18, 20, 21, 1931: Jan 6, 7, 9, 14, 16, 20, 21, 23, 27, 30, Feb 2, 3, 5, 9, 11, 13, 16, 19, 24, 25, Mar 2, 6, 10, 12, 16, 17, 19, 23, 25, 31, Apr 2, 8, 15, 20, 24, 27, May 1, 7, 8, 13, 15, 20, 22, 27, 29, Jun 1, 2, 5, 11, 17, 19, 22, 25, 30, July 2, 6, 8, 9, 10, 13, 17, 20, 23, 24, 27, 29, Aug 4, 6, 7, 10, 12, 24, 26, 28, 29.

Total No. of Visits 89



## PARTICULARS OF LONGITUDINAL FRAMING.

Mod. n° 14474

FRAMING.	AMIDSHIPS.			ENDS.			AMIDSHIPS.			ENDS.			Rivets in Longitudinal Frames.		RIVETING.		Rivets in Brackets to Bulkheads.	
	In Ship.			In Ship.			Per Rule or as approved.			Per Rule or as approved.			Diam.	Speng.	Spacing of Rivets on each side of Transverses and Bulkheads.	Number.	Diameter.	
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Inches.		Inches.	
Framing of <del>TL-E</del> .....																		
Frames in Bridge 'tween Decks ...																		
Frames from Uppermost Continuous Deck No. 1																		
" 2																		
" 3																		
BILGE " 4																		
" 5																		
" 6																		
" 7	SIDE - BILGE LONGITUDINALS BETWEEN WT. BULK <sup>NS</sup> 10 + 12																	
" 8	IN WAY OF CRANE BED.																	
" 10																		
" 11																		
" 12																		
BILGE " 10																		
" 13																		
" 14																		
" 15																		
" 16																		
Spacing of Longitudinal Frames																		
Amidships .....																		
At Ends .....																		
BOTTOM																		
Double Bottoms																		
TL-E																		
Bottom BETWEEN 10" 12" BULK <sup>NS</sup>																		
Amidships																		
At Ends...																		
Transverses.																		
SIDE																		
In Bridge																		
tween Decks																		
Depth and Thickness																		
Face Angles .....																		
Lugs to Shell* SET BACK																		
BOTTOM																		
In																		
Upper 'tween Decks																		
Depth and Thickness																		
Face Angles .....																		
Lugs to Shell* SET BACK																		
In Hold.																		
Lugs to Shell* .....																		
" " Back Bars ...																		
Brackets .....																		
Spacing of Transverse Frames .....																		
* State if joggled or liners.																		
Longitudinal Beams of																		
TL-E																		
Bridge Deck ...																		
Upper																		
Second																		
Third																		

The particulars of framing in peaks (if ordinary), Floors, Centre Girder, Side Girders and Margin Plate and their angle attachments, etc., to be entered in their respective places provided for on the Report Forms.

NOTE:—This slip to be pasted on the fourth page of the Report, and reference to same to be made under framing, etc., on the first page.