

STEEL STEAMER ~~OR~~ MOTORSHIP.

Received at London Office

APR 26 1939

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**

Date of completion of report

April 1939

Port of **Liverpool**No. **112416**Survey held at **NORTHWICH**Date First Survey **16th August /38**

Last Survey

28th March 1939On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) **STEEL SINGLE SCREW "TREFOIL"**

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

State Type of Erections **RAISED OR OK**TONNAGE under Tonnage Deck... **131.63**CLASS **+ 100 A.1.**

State if with freeboard as condition of Class

Built at **NORTHWICH**

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

"FOR TENDER & TOWING SERVICES"

FEET.

Launched **15 - 12 - 38** Yard No. **624**

Total

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

L **99.45**

Breadth (greatest moulded)

B **22.00**Builders **W. J. YARWOOD & SONS (1938) L^{td}**

Gross Tonnage

166.68

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

D **10.00**Owners **MERSEY DOCKS & HARBOUR BOARD.**

Register Tonnage

46.561st Longitudinal Number (L x D) = **994.5**Managers **✓**

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

2nd Numeral L x (B + D) = **3128**

REGISTERED DIMENSIONS.

FEET.

Length

99.1

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

8.45Residence **LIVERPOOL**

Breadth

22.2

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

9.445Port of Registry **LIVERPOOL**

Depth

9.25

Do. Long Bridge to top of keel

✓

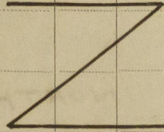
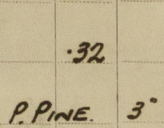
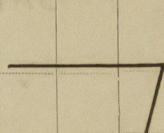
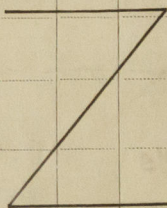
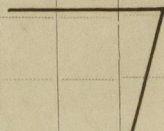
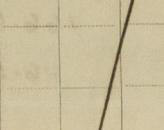
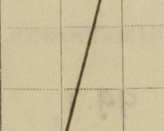
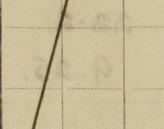

If surveyed while building, afloat, or in dry dock

Draught Moulded **8' 3³/₁₆"****BUILDING & AFLOAT**

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	21"	✓	Bracket Floors, Frame		
" " from $\frac{3}{8}$ length amidships to Collision bulkhead	21"	✓	" " Reversed Frame		
" " in peaks	{FP 21" & AP 20"	✓	" " Vertical Struts		
SIDE FRAMING.			Centre Girder, depth and thickness amidships		
Frame Amidships, Angle, $\frac{1}{2}$ " (in 8/16 Riv.)	4" 2 $\frac{1}{2}$ " 40"	✓	" " top Angles		
Frame Amidships in CREW'S ACCOMMODATION	4" 2 $\frac{1}{2}$ " 34"	✓	" " bottom Angles		
" " Extends up to	UPPER DECK	✓	Side Girders, No. each side and thickness		
Reversed Frame Amidships, Angle	2 $\frac{1}{2}$ " 2 $\frac{1}{2}$ " 34"	✓	Margin Plate depth (excl. of flange) and thickness		
" " Extends up to	ACROSS TOP OF FLOOR	✓	" " Vertical Angle to Tank side		
Depth of Framing Girder	4"	✓	" " Bracket abaft $\frac{1}{4}$ len. from stem		
Frames in Uppermost Continuous 'tween Decks, Angle, [or]			" " Vertical Angle to Tank side		
" " Second 'tween Decks, Angle, [or]			" " Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area		
" " Third " " " "			" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem		
" " CREW'S ACCOMMODATION from 1 st len. forward to 15 th len. from Stem	4" 2 $\frac{1}{2}$ " 34"	✓	" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area		
" " in Peaks, Angle	{FP 4" & AP 4"	✓	Tank Side Brackets, height above base line at toe of Frame and thickness		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	5/8" - 4 3/8"	✓	INNER BOTTOM PLATING.		
State if Frame Joggled	No	✓	Breadth and thickness of Middle Line Strake		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	✓		Thickness of remainder in Holds		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes	✓	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.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	15" x 34"	✓	Uppermost Continuous Deck, amidships	4" 3" 40"	✓
Height of Brackets at side above base line at toe of frame	No BRACKETS	✓	" (2 BEAMS) in Wells, Angle, [or]		
Middle Line Keelson, on Floors, Angle, [or]	9" x 3 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ " x 22.24 LBS	✓	" " in way of Bridge, Angle, [or]	5" 3" 38"	✓
" " Through Plate or Intercoastal Plate	N/L	✓	" (THRO' BEAMS) [or]		
" " Foundation Plate on Floors	N/L	✓	Spacing	21"	✓
" " Flat Plate Keel Angles	N/L	✓	RAISED OR DECK.		
Side Keelsons, No. each side	ONE	✓	Second Deck, amidships, Angle, [or]	5" 3" 38"	✓
" " thickness of Intercoastal Plate			Spacing	21"	✓
" " Angles	6" x 3" x 38"	✓	Third Deck, amidships, Angle, [or]		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing			Fourth Deck, amidships, Angle, [or]		
" " Are Frame and Reversed Frame joggled?			Spacing		
Bracket Floors, breadth and thickness at middle line			Poop Deck, Angle, [or]		
" " breadth and thickness at margin plate			Spacing		
			Bridge Deck, Angle, [or]		
			Spacing		
			Forecastle Deck, Angle, [or]		
			Spacing		

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.....	ONE	✓	Stringer Plate, breadth and thickness in way of Bridge		
CREW'S ACCOMMODATION. in Green Deck Size and Spacing.....	$2\frac{1}{2}$ " DIA. SOLID WIDELY SPACED	✓	Thickness of Plating abreast Deck openings in way of Wells		
OFFICERS' ACCOMMODATION AFT. " " " " " "	$2\frac{3}{8}$ " DIA. SOLID 42" APART.	✓	Thickness of Plating abreast Deck openings in way of Bridge		
" in Holds " " " "			Thickness of Plating within line of openings. TIE	.32	✓
Centre Line Bulkhead. Stiffeners and Spacing.....			If Sheathed, material and thickness	P. PINE. 3"	✓
Plating, thickness of			Third Deck. Stringer Plate, breadth and thickness.....		
STRINGERS AND DECKS. Uppermost Continuous Deck.			If Plated, state thickness.....		
Stringer Plate, breadth and thickness in Wells in way of BLR RM. CASING.	$56\frac{1}{2}$ x $7\frac{1}{16}$	✓	Fourth Deck. Stringer Plate, breadth and thickness.....		
" " in way of Bridge	$29 - 24$ x .32	✓	If Plated, state thickness		
" " FWD. OF BLR RM. CASING.			Poop Deck. Stringer Plate, breadth and thickness		
" Angle in Well	3 3 $\frac{3}{8}$	✓	Plating, Sheathing, material and thickness ...		
Thickness of Plating abreast Deck openings in way of Wells	✓		Bridge Deck. Stringer Plate, breadth and thickness.....		
Thickness of Plating abreast Deck openings in way of Bridge	✓		Plating, Sheathing, material and thickness ...		
TIE FWD. OF B.R. CASING.	.32.	✓	Forecastle Deck. Stringer Plate, breadth and thickness.....		
Thickness of Plating within line of openings.			Plating, Sheathing, material and thickness ...		
If Sheathed, material and thickness	P. PINE. 3"	✓			
R^o OR, Second Deck. Stringer Plate, breadth and thickness in Wells	25 x .32 AND 23 x .375	✓			

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled? <i>No</i>	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.			Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL	<i>34</i>	<i>.44</i> ✓	<i>.40</i> ✓	<i>.40</i> ✓		<i>SINGLE</i>	<i>5/8</i>	<i>2 1/2</i> ✓	<i>THREE</i>	<i>3/4</i>	<i>2 5/8</i> ✓	<i>STRAPPED.</i>	
„ DBLG. (if any)		✓				✓			✓				
BOTTOM PLATING, No. } of Strakes <i>2</i>		<i>.32</i> ✓	<i>.32</i> ✓	<i>.32</i> ✓		<i>SINGLE</i>	<i>5/8</i>	<i>2 1/2</i> ✓	<i>TWO</i>	<i>5/8</i>	<i>2 3/8</i> ✓	<i>LAPPED.</i>	
BILGE PLATING, No. of } Strakes <i>1</i>		<i>.32</i> ✓	<i>.32</i> ✓	<i>.32</i> ✓		<i>SINGLE</i>	<i>5/8</i>	<i>2 1/2</i> ✓	<i>TWO.</i>	<i>5/8</i>	<i>2 3/8</i> ✓	<i>LAPPED.</i>	
SIDE PLATING, No. of } Strakes		✓				✓			✓				
UPPER DECK, Sheer- } strake in Wells	<i>44</i>	<i>.36</i> ✓	<i>.32</i> ✓	<i>.32.</i> ✓		<i>DOUBLE.</i>	<i>5/8</i>	<i>2 1/2</i> ✓	<i>TWO.</i>	<i>5/8</i>	<i>2 3/8</i> ✓	<i>STRAPPED & LAPPED IN WAY OF R. & A. DK.</i>	
UPPER DECK, Sheer- } strake in Bridge ... <i>IN WAY OF BREAK.</i>				<i>.50.</i> ✓		<i>DOUBLE.</i>	<i>5/8</i>	<i>2 1/2</i> ✓	<i>TWO.</i>	<i>5/8</i>	<i>2 3/8</i> ✓	<i>STRAPPED.</i>	
STRAKE BELOW Sheer- } strake in Wells	<i>48.</i>	<i>.32</i> ✓	<i>.32</i> ✓	<i>.32.</i> ✓		<i>SINGLE</i>	<i>5/8</i>	<i>2 1/2</i> ✓	<i>TWO</i>	<i>5/8</i>	<i>2 3/8</i> ✓	<i>LAPPED.</i>	
STRAKE BELOW Sheer- } strake in Bridge ...		✓				✓			✓				
<i>R. & A. DK.</i> DECK SIDE PLATING				<i>.32.</i> ✓		<i>SINGLE.</i>	<i>5/8</i>	<i>2 1/2</i> ✓	<i>TWO.</i>	<i>5/8</i>	<i>2 3/8</i> ✓	<i>STRAPPED.</i>	
BRIDGE SIDE PLATING ...		✓				✓			✓				
FOREC'TLE SIDE PLATING		✓				✓			✓				

WATERTIGHT BULKHEADS.

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

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks					
" " Second "					
" " Third "					
" " { Holds } B/R Rm. Fwd. B'do. {	3/32 ✓	5" x 3" x 40' L ✓	30" ✓	✓	✓
" " (in Hold)	3/32 ✓	AT WINGS ✓	24" / 21" ✓		
COLLISION " "	3/32 ✓	6" x 3" x 3/8" L ✓	24" ✓		
AFTER PEAK " "	3/32 ✓	3 1/2" x 2 1/2" x 40' ✓	24" ✓	✓	✓

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Iron <i>FLAT PLATE</i>		4" x 1/4" ✓		
STEM		5 1/2" x 1 1/4" ✓		
STERN FRAME { Propeller Post	FORG ⁹	5 1/4" x 2 1/2" ^{FORSTER} & Sons L ^o ✓		
{ Rudder ..	FORG ⁹	5 1/4" x 2 1/2" ✓ "		
Speed of Vessel		10 1/2 KNOTS. ✓		
RUDDER—Type		ORDINARY ✓		
" A x D		62 x 44 ✓		
" Diam. of head	FORG ⁹	4 1/2" ^{FORSTER} & Sons L ^o ✓		
" Mainpiece at top pintle	CAST ⁹		E. Jopling & Sons L ^o UNDERLAND ✓	
" " heel ..	CAST ⁹			
" how constructed		BUILT & RIVETTED AS PER APP ^r PLAN. ✓		
" double or single plate coupling, vertical or horizontal		DOUBLE 30. ✓		
		HORIZONTAL. ✓		

STEEL.

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

The Steel Co. of Scotland, Ltd.
The Lanarkshire Steel Co. Ltd.

Has the Steel been tested as required by the Rules?

Yes. ✓

Lloyd's Register
Foundation

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.)

LIST OF PLANS FORWARDED HERewith.

APPROVED: MIDSHIP SECTION. SCANTLING PLAN - SHOWING PROFILE, DECKS, BULKHEADS, ETC. SHELL EXPANSION. STERNFRAME & RUDDER. ENGINE SEATING. (MODIFICATIONS.) STEERING ARRANGEMENTS. SPRING BUFFER.

AS BUILT: MIDSHIP SECTION. SCANTLING PLAN - SHOWING PROFILE, DECKS, BULKHEADS, ETC. GENERAL ARRANGEMENT.

FORGING AND CASTING CERTIFICATES FORWARDED HERewith IN RESPECT OF STERNFRAME & RUDDER HEAD (FORGINGS) RUDDER FRAME (CASTING)

PARTICULARS OF ELECTRIC WELDING (if employed) MINOR DETAILS ONLY.

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

+ 100 A.I. "FOR TENDER AND TOWING SERVICES." CRUISER STERN.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	3-2-22	R.L.	5354	23-4-37
	2nd "	3-2-22	W.H.	6615	16-4-34
	3rd "				

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. 28.2 ft., Bridge ft., Forecastle ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

Official No. 166,262. Signal Letters Extreme Breadth over Belting 23'-8 1/2" Over-all Length 106'-4 3/8" No. and Material of Decks UPPER DECK: STEEL-TIES SHEATHED 3" PITCH-PINE. 1 DK. RAISED OR OK: 3" PITCH-PINE. Parts of Bottom of Vessel coated with cement or approved composition WAILES DOVES BITUMASTIC SOLUTION & ENAMEL THRO' OUT EXCEPT PEAKS - CEMENT. As per 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.	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,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted, RESERVE F.W. TANK (FAS. 36-HA)	4.00	4.70 F.W.
Total length (if continuous) and Capacity			(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 1319 Date 9/9/1938 Dates of Surveys held while building 1938 Aug 16. Sept 7. 29. Oct 28. Nov 14. 30. Dec 8. 14. 15. 30. 1939 Jan 18. Feb 9. 21. Mar 2 13. 22. 24. 28. Total No. of Visits 18