

STEEL STEAMER OF MOTORSHIP

Received at London Office

JUN -5 1940

State if Report has been sent on the Freeboard of the Vessel *no*State if Report is sent on the Machinery of the Vessel *yes*

Date of completion of report

31 MAY 1940

Port of *Liverpool*No. *114280*Survey held at *Northwich*Date First Survey *4th August /39*

Last Survey

22nd May 1940

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

Steel screw 7^{ing} SPARKLER

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

*Full scantling*State Type of Erections *Flush Deck*

TONNAGE under Tonnage Deck...

CLASS *+100A1*

State if with freeboard as condition of Class

Built at *Northwich*

Do. 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)

FEET.

Launched *19th Feb. 1940* Yard No. *625*

Total

Breadth (greatest moulded)

B *22.0*Builders *W. J. Yarwood & Sons (1938) Ltd*Gross Tonnage *161.34*

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

D *11.0*Owners *The Admiralty*Register Tonnage *0.28*

1st Longitudinal Number (L x D)

= *984.5*Managers *L. Rowbotham & Sons*

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

2nd Numeral L x (B + D)

= *2953.5*Residence *19, St Dunstan's Hill London E.C.3*

REGISTERED DIMENSIONS.

FEET.

Length *90.0*

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

*9.92*Port of Registry *London*Breadth *22.15*

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

8.13

If surveyed while building, afloat, or in dry dock

Depth *10.4*

Do. Long Bridge to top of keel

*8'-9"**On stocks, afloat & on slipway*

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	<i>21</i> ✓		Bracket Floors, Frame	<i>✓</i>	
" " from $\frac{3}{8}$ length amidships to Collision bulkhead	<i>21</i> ✓		" " Reversed Frame	<i>✓</i>	
" " in peaks	<i>21</i> ✓		" " Vertical Struts	<i>✓</i>	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	<i>✓</i>	
Frame Amidships, Angle, <i>E or F</i>	<i>4 2½ 32</i> ✓		" " top Angles	<i>✓</i>	
" " Extends up to <i>Upper deck</i>	<i>✓</i>		" " bottom Angles	<i>✓</i>	
Reversed Frame Amidships, Angle	<i>✓</i>		Side Girders, No. each side and thickness	<i>✓</i>	
" " Extends up to	<i>✓</i>		Margin Plate depth (excl. of flange) and thickness	<i>✓</i>	
Depth of Framing Girder	<i>4</i>		" " Vertical Angle to Tank side	<i>✓</i>	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	<i>✓</i>		Bracket abaft $\frac{1}{2}$ len. from stem	<i>✓</i>	
" " Second 'tween Decks, Angle, [or]	<i>✓</i>		" " Vertical Angle to Tank side	<i>✓</i>	
" " Third " " "	<i>✓</i>		Bracket from forward $\frac{1}{2}$ len. from stem to Panting Area	<i>✓</i>	
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem	<i>4 2½ 32</i> ✓		" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem	<i>✓</i>	
" " in Peaks, Angle <i>E or F</i>	<i>4 2½ 32</i> ✓		" " Gussets, spacing and scantling from forward $\frac{1}{2}$ len. from stem to Panting Area	<i>✓</i>	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>5/8 @ 7 dia</i> ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>✓</i>	
State if Frame Joggled	<i>no</i>		INNER BOTTOM PLATING.		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	<i>✓</i>		Breadth and thickness of Middle Line Strake	<i>✓</i>	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	<i>✓</i>		Thickness of remainder in Holds	<i>✓</i>	
SINGLE BOTTOM.			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?	<i>✓</i>	
Floors, Depth and thickness at mid-line in Holds	<i>13 x 28</i> ✓		BEAMS.		
Height of Brackets at side above base line at toe of frame	<i>✓</i>		Uppermost Continuous Deck, amidships	<i>3½ 2½ 32</i> ✓	
Middle Line Keelson, on Floors, Angle, [or]	<i>9 x 3½ x 3½ x 22 27 lbs</i> ✓		" " (½ beam) " in way of Bridge, Angle, [or]	<i>✓</i>	
" " Through Plate or Intercoastal Plate	<i>✓</i>		Spacing	<i>20 ft</i> ✓	
" " Foundation Plate on Floors	<i>✓</i>		Second Deck, amidships, Angle, [or]	<i>✓</i>	
" " Flat Plate Keel Angles	<i>✓</i>		Spacing	<i>✓</i>	
Side Keelsons, No. each side	<i>one</i> ✓		Third Deck, amidships, Angle, [or]	<i>✓</i>	
" " thickness of Intercoastal Plate	<i>✓</i>		Spacing	<i>✓</i>	
" " Angles	<i>5 4 38</i> ✓		Fourth Deck, amidships, Angle, [or]	<i>✓</i>	
DOUBLE BOTTOM.			Spacing	<i>✓</i>	
Solid Floors, thickness and spacing	<i>✓</i>		Poop Deck, Angle, [or]	<i>✓</i>	
" " Are Frame and Reversed Frame joggled?	<i>✓</i>		Spacing	<i>✓</i>	
Bracket Floors, breadth and thickness at middle line	<i>✓</i>		Bridge Deck, Angle, [or]	<i>✓</i>	
" " breadth and thickness at margin plate	<i>✓</i>		Spacing	<i>✓</i>	
			Forecastle Deck, Angle, [or]	<i>✓</i>	
			Spacing	<i>✓</i>	

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 row @ ends.		Stringer Plate, breadth and thickness in way of Bridge	✓	
„ in 'tween Decks, Size and Spacing.....	strong fore		Thickness of Plating abreast Deck openings in way of Wells	✓	
„ „ „ „ „	soft casings		Thickness of Plating abreast Deck openings in way of Bridge	✓	
„ in Holds „ „	1/2 S, amidships.		Thickness of Plating within line of openings...	✓	
„ „ „ „ „	✓		If Sheathed, material and thickness	✓	
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....	✓		Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of	✓		If Plated, state thickness.....	✓	
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.	amidships		Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Wells	45 x 30 required ✓		If Plated, state thickness	✓	
„ „ „ „ in way of Bridge	✓		Poop Deck.		
„ Angle in Wells	3 3 30 ✓		Stringer Plate, breadth and thickness	✓	
Thickness of Plating abreast Deck openings in way of Wells	✓		Plating, Sheathing, material and thickness ...	✓	
Thickness of Plating abreast Deck openings in way of Bridge	✓		Bridge Deck.		
Thickness of Plating within line of openings	at ends 28 ✓		Stringer Plate, breadth and thickness.....	✓	
If Sheathed, material and thickness	0. Pine 2 1/2" ✓	over accommodation	Plating, Sheathing, material and thickness ...	✓	
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	✓		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 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.	Inches.	Inches.	Inches.		Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL	42	40	36	36		single	5/8"	2 1/2"	treble + double	3/4	2 5/8	strapped
„ DBLG. (if any)	✓											
BOTTOM PLATING, No. of Strakestwo...}	✓	30	26	26		single	5/8	2 1/2	double	5/8	2 1/4	lapped
BILGE PLATING, No. of Strakesone...}	✓	30	26	26.		single	5/8	2 1/2	double	5/8	2 1/4	lapped
SIDE PLATING, No. of Strakesone...}	✓	30	26	26		lower-single upper-double	5/8	2 1/2	double	5/8	2 1/4	lapped
UPPER DECK, Sheer- strake in Wells.....}	48	35	30	30		lower-double	5/8	2 1/2	double	5/8	2 1/8	strapped
UPPER DECK, Sheer- strake in Bridge ...}	✓					-	2 1/2	2 1/2	2 1/2			
STRAKE BELOW Sheer- strake in Wells.....}	✓					-	2 1/2	2 1/2				
STRAKE BELOW Sheer- strake in Bridge ...}	✓					✓	2 1/2	2 1/2				
POOP SIDE PLATING	✓					✓	2 1/2	2 1/2				
BRIDGE SIDE PLATING ...	✓					✓						
FOREG'TLE SIDE PLATING	✓					✓						

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) Three ✓

„ Deck next below ✓

As per Rule Three ✓

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	✓			
STEM	Roller steel	6x1	✓	
STERN FRAME {	Propeller Post	Forging 5'4x2 1/4	✓	J. L. Foster & Sons
{	Rudder	Leeds Forge 5x2 1/4	✓	Lunderland.
Speed of Vessel	10 knots		✓	
RUDDER—Type	Ordinary, unbalanced		✓	
" A x D	52		✓	
" Diam. of head	4 1/2		✓	J. L. Foster & Sons
" Mainpiece at top pintle	4 1/2		✓	Lunderland.
" " heel ...	3 1/2		✓	
" how constructed	forged & built		✓	
" double or single plate	single plate		✓	
" coupling, vertical or				
" horizontal				

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD	Upper tween decks	26	4x3x400A.	30	-	-
"	Below flat	32	3 1/2 x 2 1/2 x 300A.	24	-	-
"	Second	-				
"	Third	-				
"	Holds	-				
COLLISION	(in Hold)	30-32	6x3x3/8 A.	24	-	-
AFTER PEAK		30-38	3 1/2 x 2 1/2 x 400A.	24	-	-

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *S.M. Open Hearth* ✓
Colvilles, Appleby, Fordingham, Guest, Keel Baldwins, Hanawaltine, Shunninggrove,
South Durham Steel & Iron, Steel Co. of Scotland, Dorman Long, Bonsett Iron Co.
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.)

The affected plates have been recoated efficiently ✓

Forwarded herewith:-

Two forging certificates
Two plans as built
Six approved plans } with list

PARTICULARS OF ELECTRIC WELDING (if employed)

Electric welding has been employed for minor items only. The Rules for the application of Electric Arc Welding to ship construction have been complied with.

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

For Towing services; Lloyds A & C.P.

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

1st Bower 3-0-20; J.D.; 5040; 24.1.38
2nd " 2-3-14 R.D.D.; 30620; 28.4.39
3rd " -

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 or Forecastle are joined to the B.D., this should be distinctly stated

Official No. 167522 Signal Letters not stated Extreme Breadth over Belting 23.25' ✓ Over-all Length 96.33' ✓
No. and Material of Decks one - steel (Circ. 1611) (Circ. 1703)

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

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,	8.6	19 ✓
Double bottom, under Engines and Boilers,	✓		After peak tank,	7.4	14 ✓
Double bottom, if under Engines only,	✓		Deep tank, aft,	✓	
Double bottom, if under Boilers only,	✓		Deep tank, forward,	8.7 ✓	13 ✓
Double bottom, forward,	✓		Other tanks, if fitted,		
Total length (if continuous) and Capacity	✓		(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 1325

Date 22/9/1939

Dates of Surveys held while building

1939 Aug 4. 23.29. Sept 6. 11. 21. 27. Oct 4. 10. 19. 27. Nov 2. 17. 23. 30. Dec 8. 21. Jan 9. 22. Feb 7. 16. 19.
Mar 6. 19. Apr 4. 15. 26. May 2. 16. 18. 22.

Total No. of Visits 31