

STEEL STEAMER or MOTORSHIP.

Received at London Office 20 MAR 1928

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 *19th March, 1928* Port of *Sunderland* No. *29677*
 Survey held at *Sunderland* Date First Survey *20th Sept 1927* Last Survey *16th March 1928*
 On the (State if Machinery fitted Aft and of Single, Twin or Triple Screw) *Single screw "FORTHBRIDGE"* Machinery *amidships*

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

State Type of Erections

TONNAGE under Tonnage Deck... *4472.33*CLASS *F100 A1*State if with freeboard as condition of Class *no*Built at *Sunderland*

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) *L 390.0*Launched *25th Jan'y 1928* Yard No. *587*

Total

Breadth (greatest moulded) *B 54.54*Builders *Wm Oxford & Sons Ltd*Gross Tonnage *5140.00*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 30.16*Owners *Crosby Magee & Co Ltd*Register Tonnage *3156.39*1st Longitudinal Number (L x D) = *11762*

Managers

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

2nd Numeral L x (B + D) = *33033*Residence *West Hartlepool*

REGISTERED DIMENSIONS.

FEET.

Length *390.0*Framing Depth "d," at middle of length. See Sec. 3 (1d) *26.66*Breadth *54.8*Proportions—Depth to Length—Uppermost continuous deck to top of keel *12.93*Depth *27.75*Do. Long Bridge to top of keel *10.35*Draught Moulded *25.42*Port of Registry *West Hartlepool*

If surveyed while building, afloat, or in dry dock

Building and 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	<i>28</i>		Bracket Floors, Frame	<i>9 3 1/2 52</i>	
" " from 1/2 length to Collision bulkhead.....	<i>27</i>		" " Reversed Frame.....	<i>8 1/2 3 52</i>	
" " in peaks.....	<i>24</i>		" " Vertical Struts.....	<i>8 1/2 3 52</i>	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	<i>42 x 52</i>	
Frame Amidships, Angle, [or].....	<i>(NBS) 15 x 4 x 4 x 1/2 62</i>		" " top Angles.....	<i>3 1/2 3 1/2 50</i>	
" " Extends up to.....	<i>to Upper dk</i>		" " bottom Angles.....	<i>4 4 56</i>	
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	<i>one 38</i>	
" " Extends up to.....			Margin Plate depth (excl. of flange) and thickness	<i>38 x 50</i>	
Depth of Framing Girder	<i>15</i>		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem.....	<i>6 6 42</i>	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	<i>Y 3 1/2 40</i>		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem.....	<i>6 6 42</i>	
" " Second 'tween Decks, Angle, [or]	<i>@ 50</i>		" " Gussets, spacing and scantling abaft 1/2 len. from stem.....	<i>3 1/2 3 1/2 42</i>	
" " Third " " " "			" " Gussets, spacing and scantling forward 1/2 len. from stem.....	<i>3 1/2 3 1/2 42</i>	<i>per plans</i>
Framing in Peaks, Angle or [or]	<i>after 5 1/2 3 38 angle</i>		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>6' 4 1/2 x 46</i>	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>Fore 5 1/2 3 1/2 42 BA</i>		INNER BOTTOM PLATING.		
State if Frame Joggled	<i>no</i>		Breadth and thickness of Middle Line Strake ...	<i>50 x 50 40</i>	
PLATING ARRANGEMENTS (Sec. 7), state system and particulars	<i>4 web frames 40 x 54 4 side stringers 40 x 36</i>		Thickness of remainder in Holds.....	<i>42 to 36</i>	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<i>add intercostals double frames Rule thickness to of 3 strakes bottom plating maintained to coll. bhd</i>		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>yes</i>	
DOUBLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds.....			Uppermost Continuous Deck, amidships in Wells, Angle, [or]	<i>(NBS) 12 x 3 1/2 x 3 1/2 35</i>	
Height of Brackets at side above base line at toe of frame.....			" " in way of Bridge, Angle, [or].....	<i>(NBS) 12 x 3 1/2 x 3 1/2 35</i>	
Middle Line Keelson, on Floors, Angles, [or]			Spacing.....	<i>every frame</i>	
" " Through Plate or Intercostal Plate.....			Second Deck, amidships, Angle, [or]		
" " Foundation Plate on Floors.....			Spacing.....		
" " Flat Plate Keel Angles.....			Third Deck, amidships, Angle, [or]		
Double Keelsons, No. each side			Spacing.....		
" thickness of Intercostal Plate...			Fourth Deck, amidships, Angle, [or]		
" Angles.....			Spacing.....		
DOUBLE BOTTOM.			Poop Deck, Angle, [or]	<i>8 3 375</i>	
Mid Floors, thickness and spacing.....	<i>38 @ 8 1/4, 28, 27</i>		Spacing.....	<i>every frame</i>	
" Are Frame and Reversed Frame joggled?.....	<i>no</i>		Bridge Deck, Angle, [or]	<i>8 x 3 1/2 x 3 1/2 32</i>	
Bracket Floors, breadth and thickness at middle line	<i>3' 0 @ 38</i>		Spacing.....	<i>every frame</i>	
" breadth and thickness at margin plate.....	<i>3' 0 @ 38</i>		Forecastle Deck, Angle, [or]	<i>8 1/2 3 40</i>	
			Spacing.....	<i>every frame</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..... <i>One</i>			Stringer Plate, breadth and thickness in way of Bridge	✓	
" Bridge in 'tween Decks, Size and Spacing.....	L 5 5 .58 spaced 56 ✓		Thickness of Plating abreast Deck openings in way of Wells	✓	
" Hatch ends	I 6 x 3 x 3 x .40		Thickness of Plating abreast Deck openings in way of Bridge	✓	
" Kelle " " "	L 5 5 .58 on all beams		Thickness of Plating within line of openings..	✓	
" Poop in Holes " "	2 1/2 dia on all beams.	✓	If Sheathed, material and thickness	✓	
" " " " "] 15 x 4 x 4 x .71 / .60 ✓		Third Deck.		
Centre Line Bulkhead.	12 x 3 1/2 x 70 to		Stringer Plate, breadth and thickness.....	✓	
Stiffeners and Spacing.....	6 1/2 x 3 x 40 at all beams.	✓	If Plated, state thickness.....	✓	
Plating, thickness of	13 p	✓	Fourth Deck.		
STRINGERS AND DECKS.			Stringer Plate, breadth and thickness.....	✓	
Uppermost Continuous Deck.			If Plated, state thickness	✓	
Stringer Plate, breadth and thickness in Wells	69 x 66 8 1.20 at bridge ends ✓		Poop Deck.		
" " " " in way of Bridge	69 x 38 8 54 and 50 ✓		Stringer Plate, breadth and thickness	36 straight 34 ✓	
" Angle in Wells	6 6 .75		Plating, Sheathing, material and thickness ...	26 + 34 ✓	
Thickness of Plating abreast Deck openings in way of Wells	60 to 55		Bridge Deck.		
Thickness of Plating abreast Deck openings in way of Bridge34		Stringer Plate, breadth and thickness.....	69 x 50 ✓	
Thickness of Plating within line of openings...	33, 38 & 34		Plating, Sheathing, material and thickness ...	42, 40 36 ✓	
If Sheathed, material and thickness	✓		Forecastle Deck.		
Second Deck.			Stringer Plate, breadth and thickness.....	36 straight 34 ✓	
Stringer Plate, breadth and thickness in Wells...	✓		Plating, Sheathing, material and thickness ...	34 x 40 ✓	

SHELL PLATING.

SCANTLINGS.					ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? <i>no</i>			RIVETING.			
STRAKES.	AS IN VESSEL.					SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	AMIDSHIPS.		FORWARD.	AFT.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Breadth. Inches.	Thickness. Inches.	Thickness. Inches.	Thickness. Inches.								
FLAT PLATE KEEL	<i>49</i>	<i>.77</i>	<i>.68</i>	<i>.68</i>		<i>Double</i>	<i>1</i>	<i>4</i>	<i>4R to 3R</i>	<i>1</i>	<i>4</i>	<i>Lapped</i>
„ DBLG. (if any)		<i>✓</i>				<i>✓</i>						
BOTTOM PLATING, No. of Strakes ... <i>4</i>	<i>7 1/2</i>	<i>.60</i>	<i>.46</i>	<i>.46</i>		<i>Double</i>	<i>7/8</i>	<i>3 1/2</i>	<i>3R</i>	<i>7/8</i>	<i>3/8</i>	<i>Lapped</i>
BILGE PLATING, No. of Strakes ... <i>2nd</i>	<i>66</i>	<i>.60</i>	<i>.46</i>	<i>.46</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
SIDE PLATING, No. of Strakes ... <i>3</i>	<i>76</i>	<i>.60</i>	<i>.46</i>	<i>.46</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
UPPER DECK, Sheer-strake in Wells.....	<i>60</i>	<i>(.70)</i>	<i>.44</i>	<i>.44</i>		<i>"</i>	<i>1</i>	<i>4</i>	<i>4R to 3R</i>	<i>1</i>	<i>4</i>	<i>"</i>
		<i>1.20 at bridge ends</i>				<i>at bridge ends</i>			<i>4R</i>	<i>1 1/8</i>	<i>4 1/2</i>	<i>"</i>
UPPER DECK, Sheer-strake in Bridge ...	<i>60</i>	<i>.60</i>	<i>.60</i>	<i>.60</i>		<i>"</i>	<i>7/8</i>	<i>3 1/2</i>	<i>3R</i>	<i>7/8</i>	<i>3 1/2</i>	<i>"</i>
STRAKE BELOW Sheer-strake in Wells.....	<i>60</i>	<i>(.63)</i>	<i>.44</i>	<i>.44</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>(1)</i>	<i>"</i>	<i>"</i>	<i>"</i>
STRAKE BELOW Sheer-strake in Bridge ...	<i>60</i>	<i>.60</i>	<i>.60</i>	<i>.60</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
POOP SIDE PLATING				<i>.38</i>		<i>Single</i>	<i>3/4</i>	<i>3</i>	<i>Single</i>	<i>3/4</i>	<i>2 5/8</i>	<i>"</i>
BRIDGE SIDE PLATING ...		<i>.60</i>	<i>.60</i>	<i>.60</i>		<i>Double</i>	<i>7/8</i>	<i>3 1/2</i>	<i>4R to 3R</i>	<i>7/8</i>	<i>3 1/2</i>	<i>"</i>
FOREC'TLE SIDE PLATING			<i>.40</i>			<i>Single</i>	<i>3/4</i>	<i>3</i>	<i>Single</i>	<i>3/4</i>	<i>2 5/8</i>	<i>"</i>

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)..... 6						
,, Deck next below.....						
As per Rule 6.....						
		STIFFENERS.				
Plating Thickness.		VERTICAL.	HORIZONTAL.			
		Scantlings.	Spacing.	Scantlings.	Spacing.	
MIDSHIP BULKH'D, Upper tween decks..... ✓						
,, ,, Second ,,..... ✓						
,, ,, Third ,,..... ✓						
,, ,, Holds ✓ 46 36.20						
COLLISION ,, (in Hold) ✓ 50.29.36						
AFTER PEAK ,, ✓ 75.43.30						

12x3½x3/2x50 @30
(N.B.S)

10x3½x50 } 24 25.BB
6x3x34 }

10x3½x50 } 24 Recess flat.
4x3x36 } above recess

Casting or Forging.		Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar.....		✓	✓	✓
STEM.....		✓	9½x2½	✓
STERN FRAME	Propeller Post.....	✓	10½x43/8	Sunderland
	Rudder ,,.....	✓	9x43/8	Forge Co
RUDDER—AxD.....			120.04x3.20 = 387.32	✓
Speed of Vessel.....			10½ Knots.	✓
RUDDER mainpiece at head ...			9½ dia	Sunderland
,, ,, heel ...			7½ (8½) "	Forge Co
,, how constructed		✓	Forged arms shrunk on	✓
,, double or single plate		✓	Single 1.004	✓
,, coupling, vertical or horizontal		✓	vertical	✓

STEEL.

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

Bolchow Vaughan 6th 1st

South Durham St. 16th 11th

Has the Steel been tested as required by the Rules?

Pearse & Partners L^{td}

Barro Fleck 6: 41d

Bornan Long 1841

LLOYD S. B.

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EQUIPMENT No. 35110										LETTER Z		ANCHORS.			
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.				
30739	1st Bower ...	64	1	14	stockless			50	15	0	0	63 3/4	Byers improved	not stated	std 31.1.28 J.H. Butler.
30740	2nd " ...	63	2	7	"			50	7	0	0	63 3/4	"	"	
30741	3rd " ...	54	3	0	"			45	4	1	14	54 1/2	"	"	
	Collective weight.	182	2	21								182			
43369	Stream	17	2	21	4	2	7	15	16	1	0		ordinary F.W. 2	R. Sykes Sons	Bradley Heath 10.1.28

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.	Ins.		Length.	Ins.	Length.	Ins.
	Fathoms.	Ins.	Tons.	Tons.	Cwts. qrs. lbs.	Cwts.	Fathoms.	Ins.											
31531	240	2 1/4	9 1/2	12 7/10	696. 2. 14	682. 1. 0	240	2 1/4	Stud	R. Sykes & Sons	Off. 18.1.28. a Jones.	TOWLINE...	120	5	59	120	5		
Iron Stream Chain or Steel Wire	90	Cir. 4 3/4	-	11 1/2	-	-	90	Cir. 4 3/4	Hood Haggie 16"			HAWSERS & WARPS	2-90	2 3/4	15.5	2-90	2 3/4		
													3-90	2 1/2	12.5	2-90	2 1/2		

Steering Gear, Steam Donkin 16" L¹³

Steering Gear, Hand Westmoor Eng. works, also blocks tackle, Jacksons Rudder head ladder.

Boats 2-24 H life, 2-16 H dinghy Steering Chains, Size and Test 1 1/16, 24.15.0.0

Windlass Steam, Emerson Walker & Thompson Ltd.

Ceiling in Holds, thickness and material over bilges under hatches only Cargo Battens, thickness, material and spacing 2" W.Pine spaced 9"

Cargo Hatchways.-(Upper Deck) Steel plates & angles Thickness of Hatches 3" W.Pine

Size of No. 1 Hatchway (Forward) 29'3" x 20'0" No. 2 30'4" x 20'0" No. 3 16'4" x 18'0" No. 4 30'4" x 20'0" No. 5 30'4" x 20'0" No. 6

Number of Shifting Beams and/or Fore and Afters 5 Beams to No. 1, 2, 4 & 5 and 3 to No. 3.

WILLIAM DOXFORD & SONS, Limited.

Builder's Signature

H. Gallacher Manager.

GENERAL DECLARATION This vessel has been constructed in accordance with the approved plans, the Rules & Secretary's letters. The materials & workmanship are good. The freeboard has been verified and the marks cut in on the vessel's sides. The double bottom tanks, dry D/B tank under boilers, and peak tanks have been satisfactorily tested under water pressure in accordance with the rule requirements. Bulkheads, decks, tunnel, and W.T. doors have been holed and found satisfactory.

The approved plans (8 in No.) Stern frame rudder, midship section, Profile & decks, Girders in D/B forward. Outside tank brackets. Engine & Boiler space, Pumping arrangement, & Tunnel, together with 3 Forging certificates.

The amount of Entry Fee £ 9 : : Fees applied for, 9 MAR. 1928
Special Survey Fee.... £ 328 : 10 :
Freeboard 10 : 1 : 8
Travelling Expenses, if any £ : : Received by me, 22/3/28

I am of opinion the Vessel should be Classed F100 A1

State whether the Vessel has been built under Special Survey yes

Signature W.P. Bollings & A. Charlton
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to SUNDERLAND Date of issue 23/4/28

Committee's Minute TUES. 27 MAR 1928

Character assigned + 100A1

Lloyd's Register
+ L.M.O. 3.28

Mike

Cr. H. J.



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Lloyd's Register Foundation

W494-0338 2/2

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.)

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

1st Bower 40.5.0, MB: 3464, 13.1.28.
2nd „ 40.3.4, MB: 3441, 13.1.28.
3rd „ 35.0.14, MB: 3492, 13.1.28.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 32.46 ft., R.Q.D. — ft., Bridge 254.08 ft., Forecastle 24.79 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. 139254; Signal Letters — Is bottom of Vessel coated with cement yes if not give particulars of composition

PARTICULARS OF WATER BALLAST.

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	<u>109.64</u>	<u>310.0</u>	Fore peak tank,	<u>20.0</u>	<u>125</u>
Double bottom, under Engines and Boilers,	—	—	After peak tank,	<u>20.0</u>	<u>163</u>
Double bottom, if under Engines only,	<u>23.33</u>	<u>98.0</u>	Deep tank, aft,	✓	—
Double bottom, if under Boilers only, <u>(dry)</u>	<u>18.66</u>	—	Deep tank, forward,	✓	—
Double bottom, forward,	<u>184.59</u>	<u>654.0</u>	Other tanks, if fitted,	—	—
Total capacity of double bottom		<u>1065.0</u>	(If necessary, furnish further information by sketch.)		

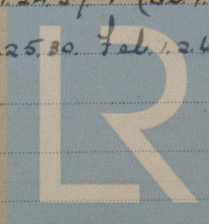
* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 5647

Date 27.9.27

Dates of Surveys held while building

1927 Sep. 20, 23, 27. Oct. 3, 7, 10, 11, 12, 14, 17, 18, 19, 21, 24, 27. Nov. 1, 3, 8, 11, 17, 21, 22, 25, 28, 29. Dec. 6, 7.
14, 19, 21, 24, 28, 30. 1928 Jan. 5, 6, 9, 10, 11, 12, 14, 17, 23, 25, 30. Feb. 1, 2, 6, 7, 15. Mar. 1, 3, 5, 7, 9, 12, 16.



Lloyd's Register
Foundation
Total No. of Visits 57