

STEEL STEAMER, or MOTORSHIP.

Received at London Office 30 AUG 1924

State if Report has been sent on the Freeboard of the Vessel *Yes*State if Report is sent on the Machinery of the Vessel *From Sld.*

Date of completion of report 29 AUG 1924

Port of

No.

Survey held at *Hebburn-on-Tyne*

Date First Survey

9 April 1924

Last Survey

*27 August*19*24*

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

*SINGLE SC. STEAMER**"BRULIN"*

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

*special scantlings for special service*State Type of Erections *Forecastle only*

TONNAGE under Tonnage Deck

2005.71

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

Total

Gross Tonnage

2241.26

Register Tonnage

1576.36

REGISTERED DIMENSIONS.

FEET.

Length

248.0

Breadth

43.05

Depth

*22.80*CLASS *100A1 for service on the Great Lakes & River St Lawrence*

State if with freeboard as condition of Class

with

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

L *248.0*

Breadth (greatest moulded)

B *42.83*

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

D *25.00*

1st Longitudinal Number (L x D)

= 6200

2nd Numeral L x (B + D)

= 16821

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

22.16

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

9.9

Do. Long Bridge to top of keel

✓

Draught Moulded

Built at *Hebburn-on-Tyne*Launched *31 July 1924* Yard No. *949*Builders *Palmers S.B. & Co. Ltd.*Owners *Bruce Lindsay Bros. Ltd. of Leith*Managers *Wm Crawford & Co.*

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

231 CORISTONE BUILDINGS

Residence

MONTREAL

Port of Registry

Newcastle

If surveyed while building, afloat, or in dry dock

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	<i>24"</i>		Bracket Floors, Frame	<i>5 1/2 3 36</i>	
" " from 1/2 length to Collision bulkhead	<i>21" as allowed.</i>		" " Reversed Frame	<i>5 3 36</i>	
" " in peaks	<i>Fore 18" aft 24"</i>		" " Vertical Struts	<i>5 3 36</i>	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	<i>36 40</i>	
Frame Amidships, Angle, \angle or \square	<i>9 3 .54</i>		" " top Angles <i>single</i>	<i>3 3 37</i>	
" " Extends up to	<i>upper deck</i>		" " bottom Angles	<i>4 4 47</i>	
Reversed Frame Amidships, Angle	<i>✓</i>		Side Girders, No. each side and thickness	<i>one 30</i>	
" " Extends up to	<i>✓</i>		Margin Plate depth (excl. of flange) and thickness	<i>24" .50</i>	
Depth of Framing Girder	<i>9"</i>		" " Vertical Angle to Tank side	<i>6 6 38</i>	
Frames in Uppermost Continuous 'tween Decks, Angle, \angle or \square	<i>✓</i>		" " Bracket abaft 1/2 len. from stem	<i>6 6 38</i>	
" " Second 'tween Decks, Angle, \angle or \square	<i>✓</i>		" " Vertical Angle to Tank side	<i>6 6 38</i>	
" " Third " " " "	<i>✓</i>		" " Bracket forward 1/2 len. from stem	<i>6 6 38</i>	
Framing in Peaks, Angle or \square	<i>Fore 6x3x40 aft 52x3x38</i>		" " Gussets, spacing and scantling abaft 1/2 len. from stem	<i>✓</i>	
Diameter and Spacing of Rivets through Shell Plating	<i>3/4" iron rivets 7 dia</i>		" " Gussets, spacing and scantling forward 1/2 len. from stem	<i>✓</i>	
State if Frame Joggled	<i>JOGGLED</i>		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>5'-0"x.32</i>	
<i>7 web frames fitted as shown on plan.</i>			INNER BOTTOM PLATING.		
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	<i>stirrings + webs as appd.</i>		Breadth and thickness of Middle Line Strake	<i>84 .50</i>	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<i>floor on every frame, midship thickness of bottom plating same as midship deck close frame, spacing 3/4" line distance full height, 2 half height</i>		Thickness of remainder in Holds	<i>.50 .45</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>yes + as per appd plans</i>	
Floors, Depth and thickness at mid-line in Holds			BEAMS.		
Height of Brackets at side above base line at toe of frame			Uppermost Continuous Deck, amidships in Wells, Angle, \angle or \square	<i>5 3 40</i>	
Middle Line Keelson, on Floors, Angles, \angle or \square			" " in way of Bridge, Angle, \angle or \square	<i>✓</i>	
" " Through Plate or Intercoastal Plate			Spacing	<i>24</i>	
" " Foundation Plate on Floors			Second Deck, amidships, Angle, \angle or \square	<i>5 1/2 3 34</i>	
" " Flat Plate Keel Angles			Spacing	<i>24"</i>	
Side Keelsons, No. each side			Third Deck, amidships, Angle, \angle or \square	<i>✓</i>	
" " thickness of Intercoastal Plate			Spacing		
" " Angles			Fourth Deck, amidships, Angle, \angle or \square	<i>✓</i>	
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing	<i>.32 .48" flanged top edge</i>		Poop Deck, Angle, \angle or \square	<i>✓</i>	
" " Are Frame and Reversed Frame joggled?	<i>yes</i>		Spacing		
Bracket Floors, breadth and thickness at middle line	<i>24" x .32</i>		Bridge Deck, Angle, \angle or \square	<i>✓</i>	
" " breadth and thickness at margin plate	<i>48" x .32</i>		Spacing		
			Forecastle Deck, Angle, \angle or \square	<i>7 3 34</i>	
			Spacing	<i>alternate frames</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.....					
,, 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>full width of sides of hatchways</i>	89" x 62				
,, ,, ,, in way of Bridge	✓	✓			
,, Angle in Wells	4 4 62	✓			
Thickness of Plating <i>between</i> abreast Deck openings in way of Wells	✓ 25				
Thickness of Plating abreast Deck openings in way of Bridge	✓				
If Sheathed, material and thickness	✓				
Second Deck, a/t only					
Stringer Plate, breadth and thickness in Wells...	25 x 30	✓			
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					
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.....	30	✓			
Plating, Sheathing, material and thickness ...	30	✓			30 made woodless no sheathing.

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled?	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	43"	.58	.50	.58		double	7/8	3 1/2	3	7/8	3 1/8	Lapped	
„ DBLG. (if any)		✓	✓	✓					3-6				
BOTTOM PLATING, No. of Strakes	30 74"	.46	.46 .38	.50 .38	(see letter) →	double to single	3/4	3"	3 to 2	3/4	2 5/8	"	
BILGE PLATING, No. of Strakes	12 67"	.52	.38	.50		double to single	3/4	3"	3 to 2	3/4	"	"	
SIDE PLATING, No. of Strakes	3 { 72" 71"	.46	.38	.38 .46		double to single	7/8	3 1/2	3 to 2	3/4	"	"	
UPPER DECK, Sheer- strake in Wells.....	60	.62	.38	.38					4 to 2	7/8	3 1/2	"	
UPPER DECK, Sheer- strake in Bridge ...)		✓											
STRAKE BELOW Sheer- strake in Wells.....)		✓											
STRAKE BELOW Sheer- strake in Bridge ...)		✓											
POOP SIDE PLATING		✓											
BRIDGE SIDE PLATING ...		✓											
FOREC'TLE SIDE PLATING		.30				single	3/4	3"	2	3/4	2 5/8	Lapped.	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—				3			
Extending to Upper Deck (Sec. 3 c)				two			
Deck next below				one = A-Peak.			
As per Rule.				app'd as above, also 2 additional divisional bulkheads (lower part WT) as on plans.			
				STIFFENERS.			
				VERTICAL.		HORIZONTAL.	
				Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Tween decks...							
"	"	"					
"	"	"					
"	"	"					
"	"	"					
"	"	"					
"	"	"					
"	"	"					
"	"	"					
"	"	Holds	43 to 26	8A 7 1/2 x 3 x 14	30		
"	"	(in Hold)	46 to 34	8A 11 x 3 1/2 x 6	24		
"	"		36 to 30	8A 6 1/2 x 3 x 3	24"		
COLLISION							
AFTER PEAK							

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				
STEM	<i>forged rolled steel</i>	$8 \times 2\frac{1}{2}$	<i>Colville</i>	
STERN FRAME { Propeller Post		$7\frac{3}{4} \times 5\frac{3}{8}$		
{ Rudder "	<i>forged</i>	$7 \times 5\frac{1}{2}$ <i>none</i>	<i>Palmer's Co</i>	
RUDDER—A x D <i>20.8</i>				
Speed of Vessel <i>10</i>				
RUDDER mainpiece at head ...		$9\frac{1}{2}$		
" " heel ...	<i>Forged</i>	$7\frac{1}{2}$	<i>Palmer's Co.</i>	
" <i>stock</i>		$7\frac{3}{8}$		
" how constructed				
" double or single plate		<i>single plate</i>		
" coupling, vertical or horizontal.....		<i>horizontal coupling</i>		

STEEL.

Manufacturer's name or trade mark of the Steel used in the construction of the Vessel (state process of manufacture) *South Durham, Dorman Long, Bolton Vaughan, Cargo Steel, open hearth process*

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

EQUIPMENT No.											LETTER	ANCHORS.			
Number of Certificate.	Anchors.	WEIGHT, PER 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.	Cwts.			
28281	1st Bower ...	36	1	14	-	-	-	33	7	0	21	35 1/2	Byers Improved Stockless	Byers & Co.	Sld 3.7.24. Butler
28065	2nd " ...	34	2	21	-	-	-	32	3	3	0	35 1/2	" " "	"	" 11.4.24 Butler
	3rd " ...														
	Collective weight.	71	0	7								71			
27197	Stream	12	1	14				14	4	0	7	12	Byers Stockless	"	Sld 29.7.24 Haffner

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.		Cwts.	qrs.	lbs.	Fathoms.	Ins.				Fathoms.	Ins.		Fathoms.	Ins.	
36299	150	1 3/4	55 1/2	77 1/2	233	2	21	210	1 3/4	Stud	—	C/Heath 31.5.24 Paul	TOWLINE...	105	3 1/2	26	105	3 1/2
75660	58 1/2	1 3/4	"	"	92	0	8			"	—	Mellor 25.7.24 Green	HAWSERS & WARPS	2-90	2 1/2	12 1/2	2-90	2 1/2
Iron Stream Chain or Steel Wire		Cir.			315	3	1						"	2-90	2 1/2	12 1/2	2-90	2 1/2
	75	3 1/2	26					75	3 1/2				"	2-90	6"			

Steering Gear, Steam *Clarke Chapman & Co.* Steering Gear, Hand *Screw gear*

Boats *2 life boats 22'0"* Steering Chains, Size and Test *1 1/8 dia. stud, 22 3/4 tons.* Windlass *Steam, Clarke Chapman*

Ceiling in Holds, thickness and material *none* Cargo Battens, thickness, material and spacing *none*

Cargo Hatchways.—(Upper Deck) *as below* Thickness of Hatches *3"*

Size of No. 1 Hatchway (Forward) *12'x28'* No. 2 *12'x28'* No. 3 *12'x28'* No. 4 *12'x28'* No. 5 *12'x28'* No. 6 *20'x28'*

Number of Shifting Beams and/or Fore and Afters *in all except No. 6 3 fore + after + 1 wood beam; in No. 6 3 fore + after, 1 fixed web + 2 wood beams*

PALMERS SHIPBUILDING & IRON CO., LTD.
Builder's Signature *Wm. S. Simpson* SHIPYARD MANAGER

GENERAL DECLARATION *This vessel has been built in accordance with the approved plan, the Society's rules and the Committee's instructions. The materials and workmanship are good & to my satisfaction. All ballast tanks have been tested under pressure as required by the Rules. Weather decks have been tested by flooding and W.T. bulkheads have tested as per Rules.*

The assigned freeboard has been marked on ships sides verified & set in. Downton bilge pump & F. Peak hand pump have been tested.

The approved plans are forwarded herewith:—

Forged iron taller, mid section, Profile & deck plans. Sinders under V.Dk at fore end. Rudder & Stern Frame, Collision Bulkhead, Pumping Plan & Amended pumping plan. Re-arrangement of painting stingers & Alteration to liner on Rudder Stock.

Vessel is similar to Messrs S.H. & W.R. Ltd's No. 1184, SS "NORTHTON"

The amount of Entry Fee £ *6* : - : - Fees applied for, *29 AUG 1924*

Special Survey Fee.... £ *187* : 1 : - Received by me, *1000 34*

Freeboard Travelling Expenses, if any £ *7* : - : -

I am of opinion the Vessel should be Classed *+100 AI* for service on *Gt. Lakes & River St. Lawrence* (with freeboard)

State whether the Vessel has been built under Special Survey *yes* Signature *G.H. Brown* Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *Newcastle* Date of issue *2/10/24*
Noty sent out to Sunderland

Committee's Minute *FRI 5 SEP 1924*

Character assigned

100 AI
with freeboard
In Service on the Great Lakes
& River St. Lawrence.
Cargo batten not fitted
Lloyds A+B.O.

+ Lmb. 8.24
C.L.

Wm. S. Simpson



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Lloyd's Register
Foundation

0013 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 *20.536 cuts, 22.2.21 C.B. Mch. 5670, 23.5.24*
2nd " *20.152 " 22.1.7 H.M. " 5407 28.3.24*
3rd *Stream 7.25 " 8.0.0 DDW. Sld 4377 14/12/20*

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop — ft., R.Q.D. — ft., Bridge — ft., Forecastle *42*
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ✓

No. and Material of Decks and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) *1 dk (ste) + 2nd dec*

about machinery (ste)

Official No. *148087*

; Signal Letters

If bottom of Vessel has been coated Inside *yes*

particulars of composition *portland Cement in peaks, cement wash only in double bottom tanks*

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,	<i>46'</i>	<i>88</i>	After peak tank,		
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,	<i>174.25</i>	<i>522</i>	Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
	Total capacity of double bottom	<i>610</i>	(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. *5090*

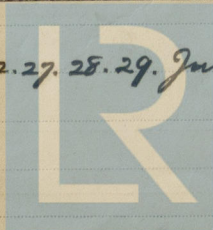
Date

9/7/24

Dates of Surveys held while building

1924

Apr. 9. 11. 24. 29. May 2. 6. 7. 9. 12. 13. 15. 20. 21. 22. 27. 28. 29. June 2. 3. 5. 13. 17. 20. July 5. 10. 17. 18. 22. 23. 24. 25. 29. 30. 31. Aug 20. 22. 27.



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Total No. of Visits