

Rpt. 1.

STEEL STEAMER or MOTORSHIP.

Received at London Office

8 FEB 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 *2nd February 1928* Port of *Liverpool* No. *29630*
Survey held at *Liverpool* Date First Survey *24 August 1927* Last Survey *24 January 1928*
On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) *Single screw steamer "BRIGHTON" machinery amidships*
State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Full scantling* State Type of Erections *Peep Bridge & Ide*

TONNAGE under Tonnage Deck... *4845.09* CLASS *100 A.1* State if with freeboard as condition of Class *yes* Built at *Liverpool*
Do. of space or spaces between Tonnage Dk. and Upper Dk. *1* Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) *L 409.5* Launched *22nd Dec 1927* Yard No. *428*
Total Breadth (greatest moulded) *B 53.66* Builders *Messrs Short Bros Ltd.*
Gross Tonnage *5359.42* Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 31.50* Owners *Messrs R. Chapman & Son*
Register Tonnage *3237.18* 1st Longitudinal Number (L x D) *= 12899* Managers *(Where necessary to be entered in Reg. Book.)*
REGISTERED DIMENSIONS. FEET. *Residence Maritime Building Newcastle-on-Tyne*
Length *409.6* Framing Depth "d," at middle of length. See Sec. 3 (1d) *26.33* Port of Registry *Newcastle*
Breadth *54.0* Proportions—Depth to Length—Uppermost continuous deck to top of keel *13.00* If surveyed while building, afloat, or in dry dock
Depth *28.2* Do. Long Bridge to top of keel *10.36* *Building & afloat.*
Draught Moulded *25.54*

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	33 ✓		Bracket Floors, Frame	BA 6 3/2 40	(owners) .64 8/1 room
" " from 1/2 length to Collision bulkhead	24 ✓		" " Reversed Frame	BA 5 1/2 3 40	.64 " "
" " in peaks	24 ✓		" " Vertical Struts	BA 5 1/2 3 40	.64 " "
SIDE FRAMING.			Chan. 10 x 3 1/2 x 3 1/2 42	.66 " "	
Frame Amidships, Angle, [or]	15 x 4 x 4 x 41		Centre Girder, depth and thickness amidships	53 x 54	.58 ER; .74 BR
" " Extends up to	upper		" " top Angles	single 6 6 50	
Reversed Frame Amidships, Angle	- - -		" " bottom Angles	" 6 6 56	(owners) ✓
" " Extends up to	- - -		Side Girders, No. each side and thickness	one 40	.44 ER .64 BR
Depth of Framing Girder	15 ✓		Margin Plate depth (excl. of flange) and thickness	46 x 52	(owners) .56 ER; .73 BR
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	- - -		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	6 6 50	double for 1/2 depth of margin
" " Second 'tween Decks, Angle, [or]	- - -		" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	6 6 48	at 24" spacing double for 1/2 depth of margin
" " Third " " " "	- - -		" " Gussets, spacing and scantling abaft 1/4 len. from stem	none	
Framing in Peaks, Angle or [(N.B.S.) 9 3 1/2 39 (O.B.S.) 9 x 5 1/2 x 40		" " Gussets, spacing and scantling forward 1/4 len. from stem	- - -	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	6 dia x 5 dia		Tank Side Brackets, height above base line at toe of Frame and thickness	96 x 50	
State if Frame Joggled	No ✓		INNER BOTTOM PLATING.		
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	Plt and Inter Stringers and Panting Beams		Breadth and thickness of Middle Line Strake	60 x 49	(owners) .66 ER .71 BR
STRENGTHENING OF BOTTOM FORWARD. State Particulars	Single framing = to double		Thickness of remainder in Holds	44 - 40 x 38	
SINGLE BOTTOM.	add Intercostals		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?	yes ✓	
Floors, Depth and thickness at mid-line in Holds	Midship Thickness of Bottom plating maintained		BEAMS.		
" Height of Brackets at side above base line at toe of frame			Uppermost Continuous Deck, amidships in Wells, Angle, [or]	8 3 1/2 40	N.B.S. 8 x 3 x 36 BA
Middle Line Keelson, on Floors, Angles, [or]			" " in way of Bridge, Angle, [or]	8 3 1/2 40	N.B.S. 8 x 3 x 36 BA
" " Through Plate or Intercostal Plate			Spacing	33 ✓	
" " Foundation Plate on Floors			Second Deck, amidships, Angle, [or]	- - -	
" " Flat Plate Keel Angles			Spacing	- - -	
Side Keelsons, No. each side	- - -		Third Deck, amidships, Angle, [or]	- - -	
" thickness of Intercostal Plate	- - -		Spacing	- - -	
" Angles	- - -		Fourth Deck, amidships, Angle, [or]	- - -	
Spacing	- - -		Spacing	- - -	
DOUBLE BOTTOM.			Poop Deck, Angle, [or]	7 3 55	N.B.S. 7 x 3 x 33 BA
Solid Floors, thickness and spacing	43 @ 8-3 47 ER .65 BR	(owners) ✓	Spacing	33 x 24	
" Are Frame and Reversed Frame joggled?	710		Bridge Deck, Angle, [or]	7 3 51	N.B.S. 7 x 3 x 48 BA
Bracket Floors, breadth and thickness at middle line	2-9 x 43	(owners) ✓	Spacing	33	
" breadth and thickness at margin plate	2-9 x 43	.65 " "	Forecastle Deck, Angle, [or]	8 3 1/2 40	N.B.S. 8 x 3 x 36 BA
			Spacing	24 x 24	

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.
	THREE	FOUR	FIVE	SIX		THREE	FOUR	FIVE	SIX	
PILLARS, No. of Rows.....	Three	✓								
<i>Poof, Br. & Fole</i>	14	4	.50	✓						
" in 'tween Decks, Size and Spacing.....	66	54	.48	✓						
" " " " " "	-	-	-	-						
" in Holds	8	8	.78	✓						
" " " " " "	8	8	.74	✓						
" " " " " "	wide spaced.			✓						
Centre Line Bulkhead.	8A	4	3	.40	Sp 54					
Stiffeners and Spacing.....	9	3	.40	Sp 33	✓					
" " " " " "	13A	6	3	.42	Sp 33					
" " " " " "	6	3	.325	✓	5 1/2 x 3 x 1/4 S.B. 1/2					
Plating, thickness of30				6 x 3 x 1/2 S.B.					
STRINGERS AND DECKS.										
Uppermost Continuous Deck.										
Stringer Plate, breadth and thickness in Wells	70 x .89	.42	✓							
" " " " " "	15 @ Br ends									
" " " " " "	70 x .40	✓								
" " " " " "	in way of Bulkheads	.60	✓							
" Angle in Wells	6	6	.86	✓						
Thickness of Plating abreast Deck openings	.94	✓	.58	✓						
" in way of Wells										
Thickness of Plating abreast Deck openings	.40	✓	.36	✓						
" in way of Bridge										
Thickness of Plating within line of openings...	.42	✓	.34	✓						
If Sheathed, material and thickness	-	-	-	-						
Second Deck.										
Stringer Plate, breadth and thickness in Wells...	-	-	-	-						
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										
Thickness of Plating within line of openings...										
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										
Poof Deck.										
Stringer Plate, breadth and thickness										
Plating, Sheathing, material and thickness ...	part sheathed	5 x 3 S.B.	✓							No sheathing
Bridge Deck.										
Stringer Plate, breadth and thickness.....	69 x .46	✓								
" " " " " "	inc. in way of Bulkheads	.60	✓							
Plating, Sheathing, material and thickness44	✓								
Forecastle Deck.										
Stringer Plate, breadth and thickness.....	.30	✓								
Plating, Sheathing, material and thickness28	✓								
" " " " " "	sheathing 5 x 3 S.B.	✓								

SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? <i>No</i>			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.
FLAT PLATE KEEL	<i>50</i>	<i>.80</i>	<i>.70</i>	<i>.40</i>		<i>double.</i>	<i>1"</i>	<i>3⁶/₉</i>	<i>Four</i> ✓	<i>1"</i>	<i>4"</i>	<i>Lapped.</i>	
„ DBLG. (if any)	-	-	-	-		-	-	-	-	-	-	-	
BOTTOM PLATING, No. of Strakes <i>4</i>	<i>41</i>	<i>.66</i>	<i>.48</i>	<i>.52</i>		<i>double</i>	<i>7/8</i>	<i>3³/₁₀</i>	<i>Four</i> ✓	<i>7/8</i>	<i>3¹/₂"</i>	<i>Lapped.</i>	
BILGE PLATING, No. of Strakes <i>1</i>	<i>75</i>	<i>.66</i>	<i>.48</i>	<i>.52</i>		"	"	"	" ✓	"	"	"	
SIDE PLATING, No. of Strakes <i>3</i>	<i>1-69</i> <i>2-41</i>	<i>.66</i>	<i>.46</i>	<i>.50</i>		"	"	"	<i>Three</i> ✓	<i>7/8</i>	<i>3¹/₈</i>	"	
UPPER DECK, Sheer-strake in Wells.....	<i>41</i>	<i>.86</i>	<i>.46</i>	<i>.46</i>		"	<i>1"</i>	<i>3⁶/₉</i>	<i>Five</i> ✓	<i>1¹/₈</i>	<i>5</i>	"	
UPPER DECK, Sheer-strake in Bridge ...	<i>41</i>	<i>.62</i>	-	-		"	<i>7/8</i>	<i>3³/₁₀</i>	<i>Three</i> ✓	<i>7/8</i>	<i>3¹/₈</i>	"	
STRAKE BELOW Sheer-strake in Wells.....	<i>41</i>	<i>.40</i>	<i>.46</i>	<i>.46</i>		"	"	"	<i>Four</i> ✓	<i>7/8</i>	<i>3¹/₂</i>	"	
STRAKE BELOW Sheer-strake in Bridge ...	<i>41</i>	<i>.66</i>	-	-		"	"	"	<i>Three</i> ✓	<i>7/8</i>	<i>3¹/₈</i>	"	
POOP SIDE PLATING	<i>1-50</i>	<i>.59</i>	-	<i>.38</i>		<i>Single</i>	<i>7/8</i>	<i>3¹/₂</i>	<i>Single</i> ✓	<i>7/8</i>	<i>3¹/₈</i>	"	
BRIDGE SIDE PLATING ...	<i>1-52</i>	<i>.59</i>	-	-		<i>double</i>	<i>7/8</i>	<i>3³/₁₀</i>	<i>Three</i> ✓	<i>7/8</i>	<i>3¹/₈</i>	"	
FORECASTLE SIDE PLATING	-	-	<i>.41</i>	✓		<i>Single</i>	<i>7/8</i>	<i>3¹/₂</i>	<i>Single</i> ✓	<i>7/8</i>	<i>3¹/₈</i>	<i>✓</i>	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—					
Extending to Upper Deck (Sec. 3 c)	Seven	✓			
" Deck next below	-				
As per Rule	Seven	✓			
	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks	-	12 x 3 1/2	.62	12 x 3 1/2	.62
" " Second	-	12 x 3 1/2	.62	12 x 3 1/2	.62
" " Third	-	12 x 3 1/2	.62	12 x 3 1/2	.62
" " Holds	46-31	12 x 3 1/2	.62	12 x 3 1/2	.62
COLLISION " (in Hold)	40-36	12 x 3 1/2	.62	12 x 3 1/2	.62
AFTER PEAK " "	33-30	12 x 3 1/2	.62	12 x 3 1/2	.62

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	Flat plate keel.			
STEM	Rolled Steel.	10 x 2 1/2		
STERN FRAME { Propeller Post	Forging.	10 1/2 x 8	Sunderland	
{ Rudder		10 x 9 1/2	Forge	
RUDDER—A x D	147.2 x 3.379	49 1/2	and	
Speed of Vessel	Under 10 knots.		Eng 9	
RUDDER mainpiece at head ...	10" dia		60 1/2	
" " heel ...	7 1/2"			
" how constructed	Forging & arms shrunk on			
" double or single plate	Single	1.08		
" 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* ✓
Messrs. South Durham Steel & Iron Co Ltd; Conselt Iron Co Ltd; Bolckow Vaughan & Co Ltd; Dorman Long & Co Ltd; Cargo Fleet Iron Co
 Has the Steel been tested as required by the Rules? *yes*

EQUIPMENT No. 36379												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.	Cwts.				
60519.	1st Bower ...	65	2	14	Stockless.			51	5	-	-	63 ³ / ₄	✓	Taylor's Dreadnought.	S. Taylor & Son	Totton 6 th Oct 1927
60540	2nd „ ...	65	1	7	✓	-	-	51	2	2	-	63 ³ / ₄	✓	„ „	(Brierley Hill)	„ 12 th Oct 1927
60501	3rd „ ...	55	0	14	✓	-	-	45	9	0	7	54 ¹ / ₂	✓	„ „	HT	„ 30 th Sep 1927
	Collective weight.	186	0	7	✓	-	-	-	-	-	-	182	✓			W.A. Drysdale
60520	Stream	18	0	0	✓	4	2	0	19	✓	-	-		ordinary F.W.G.	S. Taylor & Son	Totton 6 th Oct 1927

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.	Statutory.	Break- ing.	Supplied.		Per Rule.		Length.	Diam.					Length.	Cir.		Length.	Cir.		
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.		
15484	270	2 1/2	9 1/8	12 3/16	704	1	0	682	1	0	270	2 1/2	Stud LINK	S Taylor & Sons Ltd	Sunderland	TOWLINE	120	5	73	120	5
Iron Stream Chain or Steel Wire	90	4 1/2	✓	47	✓	-	-	-	90	4 1/2	Gal	Dixon & Corbett & RS. Newall & Co Ltd	26 Sept 1927 J.H. Bullen	HAWSERS & WARPS	2-90	2 1/2	15 1/2	2-90	2 1/2		
															2-90	7	Manilla	2-90	2 1/2		

Steering Gear, Steam
Donkin & Co. Ltd.
Steering Gear, Hand
Auxiliary means of steering by Flex steel wire rope tackle (having iron blocks) led to winch. Rudder brake by Donkin & Co. patent hydraulic.
Boats
2-24 Lifeboats; 2-18 cutters
Steering Chains, Size and Test
1¹/₂ T. C. 29-5-0-0
Windlass
Clarke Chapman & Co. Ltd.
Ceiling in Holds, thickness and material
2¹/₂" w.w. under hatches and over bilges.
Cargo Battens, thickness, material and spacing
2" w.w. spaced 9"
Cargo Hatchways.—(Upper Deck)
Steel plates and angles
Thickness of Hatches
3"
Size of No. 1 Hatchway (Forward)
31'6" x 20'0" No. 2 33'0" x 20'0" No. 3 27'6" x 18'0" No. 4 33'0" x 20'0" No. 5 33'0" x 20'0" No. 6
Number of Shifting Beams and/or Fore and Afters
5 to nos 1, 2, 4, + 5. 1 and 2 Trunk blds to No 3 hatch

For SHORT BROTHERS, LIMITED.
Builder's Signature
George A. Short

GENERAL DECLARATION This vessel has been constructed in accordance with the approved plans, the Rules and Secretary's letters. The materials and workmanship are good. The freeboard has been verified, and the marks cut in on the vessel's sides. The Peak tanks and double bottom tanks have been satisfactorily tested under pressure in accordance with the Rule requirements. Bulkheads, decks, tunnel & WT. doors have been holed and found satisfactory. The approved plans (7 in number) "measurship section"; "Profile and deck plan"; "Pillars & Girders"; "Forward strengthening of bottom"; "Horn & Rudder frame"; "Pumping plan" & "Bulkhead sweeps at bridge ends" together with three forging certificates, and "measurship section", "Profile & Deck plan" & "Horn & Rudder frame" as built are forwarded herewith.

Please return plans for reference in dealing with sister vessels.

The amount of Entry Fee £ 9 : : :
Special Survey Fee.... £ 333 : 19 : 6
Freeboard 10 : 1 : 8
Travelling Expenses, if any £ : :
Fees applied for, 1st Feb 1928
Received by me, 2/3/28
I am of opinion the Vessel should be Classed *100 A.I.
Signature W.P. Hollings & A. Charlton
Surveyor to Lloyd's Register of Shipping.
State whether the Vessel has been built under Special Survey yes.
Certificate to be sent to SUNDERLAND. Date of issue 9/3/28.

Committee's Minute
Character assigned
-1- 100 A1
Lloyd's assent
+ June 1. 28
CL

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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. }
2nd " } *Heads of forged open hearth ingot steel.*
3rd " }

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *33.5* ft., R.Q.D. — ft., Bridge *115.5* ft., Forecastle *44.0* 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. *149452* : Signal Letters — Is bottom of Vessel coated with cement *Yes* if not give particulars of composition.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length.	Water Capacity.	Where Fitted.	*Length.	Water Capac
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	126.5	604	Fore peak tank,	35.0	214
Double bottom, under Engines and Boilers,	41.25	224	After peak tank,	28.0	290
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	176.0	969	Other tanks, if fitted,		
343.75	Total capacity of double bottom	1497	(If necessary, furnish further information by sketch.)		507
* The wells are not to be included in the lengths of the tanks.					

Order for Special Survey No. *5632*

Date *2.6.27*

Dates of Surveys held while building

1927. Aug. 24. Sep. 2. 6. 8. 13. 15. 20. 23. 24. 27. 28. 30. Oct. 3. 4. 6. 7. 10. 12. 14. 17. 19. 21. 24. 26. 28. Nov. 29. 14. 15. 17. 18. 22. 24. 25. 28. 29. Dec. 1. 6. 7. 8. 10. 12. 15. 16. 21. 22. 1928. Jan. 5. 16. 17. 20. 23. 24.

Lloyd's Register Foundation

Total No. of Visits *52*