

STEEL STEAMER or MOTORSHIP.

Received at London Office 21 NOV 1927

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 17th November 1927Port of *Sunderland*

No. 29555

Survey held at *Sunderland*Date First Survey 30th March 1927Last Survey 8th November 1927On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) *Single Screw Steamer "Benton"*State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Full Scantling Cargo Steamer*State Type of Erections *Prop Bridge & Top*TONNAGE under 4007.97
Tonnage Deck...CLASS **100 A1*State if with freeboard as condition of Class *Yes 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 372.41*

Launched 27/9/27

Yard No. 219

Total

Breadth (greatest moulded) *B 52.50*Builders *D. Pickering & Sons Ltd*

Gross Tonnage 4384.84

Depth at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 28.00*Owners *International South American Steamship Co Ltd*

Register Tonnage 2598.10

1st Longitudinal Number (L x D) = 10427.48

Managers *Arthur H. H. Ltd*
(Where necessary to be entered in Reg. Book.)REGISTERED DIMENSIONS.
FEET.

Length 373.2

Framing Depth "d," at middle of length. See Sec. 3 (1d) *24.62*

Breadth 52.75

Proportions—Depth to Length—Uppermost continuous deck to top of keel *13.30*

Depth 25.85

Do. Long Bridge to top of keel *10.13*Draught Moulded *23-10 1/2*Residence *25 Durn Street*
*at Newcastle on Tyne*Port of Registry *Newcastle on Tyne*

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	36		Bracket Floors, Frame	6 x 3 1/2 x 35	6 x 3 1/2 x 34
" " from 1/4 length to Collision bulkhead	27		" " Reversed Frame	5 1/2 x 3 x 34	
" " in peaks	24		" " Vertical Struts	10 x 3 1/2 x 3 1/2 x 42	50
SIDE FRAMING.			Centre Girder, depth and thickness amidships	30 1/2 x 50	
Frame Amidships, Angle, [or]	12 x 4 x 4 675	625	" " top Angles	5 x 5 x 49	
" " Extends up to	Upper dk & Bridge dk		" " bottom Angles	3 x 3 x 49	
Reversed Frame Amidships, Angle	Channel Frames		" " Gussets, spacing and scantling abaft 1/4 len. from stem	6 x 6 x 54	
" " Extends up to			" " Gussets, spacing and scantling forward 1/4 len. from stem	4 x 4 x 52	
Depth of Framing Girder	12		Side Girders, No. each side and thickness	one 37	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	6 x 3 1/2 x 35	6 x 3 1/2 x 32	Margin Plate depth (excl. of flange) and thickness	36 1/2 x 51	
" " Second 'tween Decks, Angle, [or]			" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	6 x 6 x 39	single
" " Third " " " "			" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	6 x 6 x 39	66
Framing in Peaks, Angle, [or]	7 x 3 1/2 x 46		" " Gussets, spacing and scantling abaft 1/4 len. from stem	36 1/2 x 6 x 6 x 39	single
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 5 1/2 dia		" " Gussets, spacing and scantling forward 1/4 len. from stem	27 x 6 x 6 x 39	single
State if Frame Joggled	No		Tank Side Brackets, height above base line at toe of Frame and thickness	6 1/2 x 49	6 x 6 x 49
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	Intermetal things		INNER BOTTOM PLATING.		
STRENGTHENING OF BOTTOM FORWARD. State Particulars	Single framing		Breadth and thickness of Middle Line Strake	49 x 48	
SINGLE BOTTOM.			Thickness of remainder in Holds	44 x 52	
Floors, Depth and thickness at mid-line in Holds			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	
Height of Brackets at side above base line at toe of frame			BEAMS.		
Middle Line Keelson, on Floors, Angles, [or]			Uppermost Continuous Deck, amidships	10 1/2 x 3 1/2 x 51	
" " Through Plate or Intercoastal Plate			" " in Wells, Angle, [or]	9 x 3 1/2 x 38	
" " Foundation Plate on Floors			" " in way of Bridge, Angle, [or]	12 x 3 1/2 x 45	
" " Flat Plate Keel Angles			Spacing	36	
Side Keelsons, No. each side			Second Deck, amidships, Angle, [or]		
" " thickness of Intercoastal Plate			Spacing		
" " Angles			Third Deck, amidships, Angle, [or]		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing	43 36 72 27		Fourth Deck, amidships, Angle, [or]		
" " Are Frame and Reversed Frame joggled?	No		Spacing		
Bracket Floors, breadth and thickness at middle line	30 43		Poop Deck, Angle, [or]	6 1/2 x 3 x 325	44
" " breadth and thickness at margin plate	31 1/2 x 43		Spacing	24	
			Bridge Deck, Angle, [or]	10 x 3 1/2 x 45	9 1/2 x 3 1/2 x 50
			Spacing	36	
			Forecastle Deck, Angle, [or]	9 x 3 1/2 x 38	NBS
			Spacing	27 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.
PILLARS, No. of Rows.....	<i>One</i>		Stringer Plate, breadth and thickness in way of Bridge		
<i>BRIDGE</i>			Thickness of Plating abreast Deck openings in way of Wells		
in 'tween Decks, Size and Spacing.....	<i>8 x 3 1/2 x 3 1/2 x 116</i>		Thickness of Plating abreast Deck openings in way of Bridge		
" " " " "	<i>72" spacing</i>		Thickness of Plating within line of openings...		
in Holds " "			If Sheathed, material and thickness		
" " " " "			Third Deck.		
Centre Line Bulkhead.			Stringer Plate, breadth and thickness.....		
Stiffeners and Spacing.....	<i>10 x 3 1/2 . 50 to 6 x 3 . 30</i>		If Plated, state thickness.....		
Plating, thickness of	<i>36" spacing . 30</i>		Fourth Deck.		
STRINGERS AND DECKS.			Stringer Plate, breadth and thickness.....		
Uppermost Continuous Deck.			If Plated, state thickness		
Stringer Plate, breadth and thickness in Wells	<i>54 x 70 at Bridge End</i>		Poop Deck.		
" " " " " in way of Bridge	<i>54 x 38</i>	<i>54 x 38</i>	Stringer Plate, breadth and thickness	<i>34</i>	
" " " " " Angle in Wells	<i>6 x 6 x 66</i>	<i>64</i>	Plating, Sheathing, material and thickness ...	<i>34 3" PP Sheathing</i>	
Thickness of Plating abreast Deck openings in way of Wells	<i>70 - 60</i>		Bridge Deck.		
Thickness of Plating abreast Deck openings in way of Bridge	<i>36</i>		Stringer Plate, breadth and thickness.....	<i>54 x 114</i>	
Thickness of Plating within line of openings...	<i>38 - 32 (IN BRIDGE)</i>		Plating, Sheathing, material and thickness ...	<i>114 x 34 16" Sheathing</i>	
If Sheathed, material and thickness	-		Forecastle Deck.		
Second Deck.			Stringer Plate, breadth and thickness.....	<i>34</i>	
Stringer Plate, breadth and thickness in Wells...	-		Plating, Sheathing, material and thickness ...	<i>28 STEEL Sheathed - 2 1/2" P.P.</i>	

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.					
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	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	48½	73	65	65	✓	✓	Double	1	4	4 R TO 3 R	1	4	Lapped
„ DELG. (if any)	-	-	-	-			-	-	-	-	-	-	-
BOTTOM PLATING, No. of Strakes4.....	68	66	54	48	Midship thickness maintained on 3 strakes to Collision Bulkhead	✓	Double	7/8	3 6/10	3 R	7/8		Lapped
BILGE PLATING, No. of Strakes1.....	71	66	45	57	✓		„	„	„	„	„		„
SIDE PLATING, No. of Strakes3.....	72	66	43	43	✓		„	„	„	„	„		„
UPPER DECK, Sheer-strake in Wells.....	60	75 FINE WALL 76 AF	43	43	50 app	✓	„	1	4	4 R TO 3 R	1	4	„
UPPER DECK, Sheer-strake in Bridge ...	60	66	-	-	DOUBLED AT BRIDGE ENDS 50 app	✓	Double	7/8	3 6/10	3 R	7/8	3 1/8	„
STRAKE BELOW Sheer-strake in Wells.....	60	66	43	43	50 app	✓	„	„	„	3 R	7/8	3 1/8	„
STRAKE BELOW Sheer-strake in Bridge ...	60	66	-	-	50 app	✓	„	„	„	3 R	7/8	3 1/8	„
POOP SIDE PLATING	-	-	-	37	✓		Single	7/8	3 1/2	1 R	7/8	3 1/8	„
BRIDGE SIDE PLATING ... 2 Strakes	55	58	-	-	✓		Double	7/8	3 6/10	3 R	7/8	3 1/8	„
FORECASTLE SIDE PLATING	-	-	40	-	✓		Single	7/8	3 1/2	1 R	7/8	3 1/8	„

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—						
Extending to Upper Deck (Sec. 3 c)		Six				
Deck next below		✓				
As per Rule		Six				
		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks				✓		
" " Second "				✓		
" " Third "				✓		
" " Holds		40 to 27	Channel 13x4x4 60/625	31 1/2	-	
COLLISION " (in Hold)		48 to 30	8x3 1/2 x 38 NBS	24	True plank flat 2 1/2 inch beam	
AFTER PEAK " "		32 to 30	6x3 x 40 NBS	24	2 1/2 inch beam	
		275 at aft	Flange 48			
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel						
Steel. New Dorman Long & Co. Ltd. South Durham						
S.S. 3 1/2, Cargo Thickened, Pease & Partner						
Has the Steel been tested as required by the Rules? Yes						

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar			<i>Flat Plate</i>	<i>Keel</i>
STEM			<i>Roller Steel</i>	<i>9 1/2 x 3 1/8 T.S. Forster & Co.</i>
STERN FRAME { Propeller Post	<i>Forging</i>	<i>10 1/2 x 7 1/8</i>		
{ Rudder		<i>9 x 7 1/8</i>		
RUDDER—A x D.....		<i>121.29 x 3.11 = 377.23</i>		
Speed of Vessel.....		<i>10 knots</i>		
RUDDER mainpiece at head ...		<i>8 7/8</i>		
" " heel ...		<i>6 1/16</i>		
" " how constructed		<i>Forged arms shrunk on</i>		
" " double or single plate coupling, vertical or horizontal		<i>Single plate . 96</i>		
		<i>Horizontal</i>		
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture).....				
<i>Open Heart</i>				
<i>Has the Steel been tested as required by the Rules? Yes</i>				

EQUIPMENT No. 32190										LETTER X		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.				
60403	1st Bower ...	56	3	7	56	3	7	46	9	1	14	56 1/4	Halls Pattern	J. L. Wright & Co. Tipton	Tipton 4/8/27 DA Drysdale
60404	2nd " ...	56	0	23	"	"	"	46	3	0	14	56 1/4	"	"	"
60402	3rd " ...	48	0	7	"	"	"	41	2	2	0	47 1/2	"	"	"
	Collective weight.	161	0	9	"	"	"					160-0-0	"	"	"
60387	Stream	15	0	14	4	0	7	16	12	0	21	15-0-0	Ordinary	"	Tipton 22/7/27 DA Drysdale

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.	Breaking.	Supplied.	Per Rule.	Length.	Diam.	Length.					Cir.	Length.		Cir.		
62084	Fathoms. 135 1/2	Ins. 2 7/8	Tons. 8 1/4	Tons. 11 3/4	Cwts. 315	qrs. 3	lbs. 6												
62085	135 3/8	2 7/8	8 1/4	11 3/4	315	3	2		608 3/4	270	2 2/16								
Iron Stream Chain or Steel Wire	90	Cir. 4 1/2		39					90	Cir. 4 1/2	Steel Wire								

Steering Gear, Steam *John Lynn & Co Ltd* Steering Gear, Hand *Tiller operated by steel wire rope double led to winch. Rudder brake fitted.*

Boats *2 Lifeboats, 1 Dinghy 16-0* Steering Chains, Size and Test *1 7/16 24-15-0-0* Windlass *Emmerson Walker & Thompson*

Ceiling in Holds, thickness and material *Bridges only 2 1/2 W.W.* Cargo Battens, thickness, material and spacing *6x2 W.W. Spaced 9"*

Cargo Hatchways.—(Upper Deck) *Steel plates & angles* Thickness of Hatches *3"*

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

Number of Shifting Beams and/or Fore and Afters *4 At Hatches Nos 1, 2, 4 & 5 3 Beams at No 3. no fore afters*

Builder's Signature *D. J. Richardson*

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 vessels sides. The double bottom tanks and peak tanks have been satisfactorily tested. The decks, bulkheads have been hose tested, windlass, steering gear and hand pump tried under working conditions and all found satisfactory. The approved plans (12 in No) are forwarded herewith together with three forging certificates.*

List of plans. Midship Section, Profile & decks, Bulkheads and painting arrangement. Centre line bulkhead, Bunkers, Stern frame, Rudder, Pumping arrangement. Frames in way of tunnel recess, Tunnel, Forward tank girders, Tween deck Scuppers, also plan of midship Section as built.

The amount of Entry Fee £ 8 : 0 : 0 Fees applied for, *15 NOV. 1927*

Special Survey Fee.... £294 : 5 : 0 Received by me, *2-1-28 A.A.B.*

Freeboard 9 : 3 : 4

Travelling Expenses, if any £ : : ✓

I am of opinion the Vessel should be Classed * *100 A 1*

State whether the Vessel has been built under Special Survey *Yes* Signature *S. W. Dixon*

Certificate to be sent to *SUNDERLAND* Date of issue *3/1/28* Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUES. 22 NOV 1927*

Character assigned *+ 100 A 1*

Lloyd's A.C.P. *+ L.M.C. 11:24*

Wick *only*

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	32-3-14	KH	3613	31/8/25
	2nd "	32-3-23	KH	4262	19/11/26
	3rd "	30-1-23	KH	2934	16/5/24

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 31.75 ft., R.Q.D. — ft., Bridge 224.25 ft., Forecastle 35.41 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) 1st Deck (S.H.)

Official No. 149448 ; Signal Letters _____ Is bottom of Vessel coated with cement _____ if not give particulars of composition Bottom coated with cement in Boiler space - Cement filler elsewhere

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length.	Water Capacity.	Where Fitted.	*Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	120	325.15	Fore peak tank,	23.4	110.21
Double bottom, under Engines and Boilers,	39	157.05	After peak tank,	28.0	240.40
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	160.5	528.54	Other tanks, if fitted,		
Total capacity of double bottom			(If necessary, furnish further information by sketch.)		
1010.74					
* The wells are not to be included in the lengths of the tanks.					

Order for Special Survey No. 5618

Date 12.1.27

Dates of Surveys held while building

1927. Mar. 30.31. Apr. 1.5.6.12.20.26.27. May. 6.9.12.17.18.20.24.26.27.30.31. June. 2.8.10.15. 17.27. July. 4.5.11.13.14.19.27.28. Aug. 2.5.10.18.22.25.31. Sep. 2.6.8.9.13.14.15.16.19.20.22.23. 26.27. Oct. 3.5.7.12.14.17.18.19.20.21.25.26.27.31. Nov. 2.3.4.7.8