

1 or 2 Decks.

IRON OR STEEL STEAMER.

Received at London Office.

3477 N.O. 6 APR 1891

State if Report is also sent on the Machinery of the Vessel Yes

Date of completion of Report 4 April

Port of Falmouth

No. 3477 Survey held at Falmouth

Date, First Survey 10 April 1890 Last Survey 2 March 1891

On the screw steamer Hercules

Rig Schooner

TONNAGE under Tonnage Deck... 164.42
Do. of Poop
Do. of Raised Qr.
Dk. or Break..
Do. of Bridge House
of Houses on Deck
of excess of Hatchways
of Forecastle
above Crown of
Engine Room
Gross Tonnage 164.42
Less Crew Space
Less above Crown of
Engine Room
TONNAGE FOR FEES ..
Less Engine Room 106.12
Less Navigation Spaces
Register Tonnage 58.3
as out on Beam ..

ONE OR TWO DECKED VESSEL.

CLASS 100 A1

Master

Year of appointment (1) As master in service of owner of present vessel - 18 (2) As master of this vessel - 18

Built at Falmouth

When built 1891 Launched 13 Nov 1890

By whom built Coe & Co

Owner Cia Marit Portuguesa de

Manag Rebelo, & Salvage de Anon

(Where de Respon din)

Residence 45 Leadenhall Street London

Port belonging to Oporto

Half Breadth (moulded) 10.0
Depth from upper part of Keel to top of Main Deck Bms. 11.66
Girth of Half Midship Frame (as per Rule) 18.7
1st Number 40.36
Length 114.0
2nd Number 4601
Proportions - Breadths to Length 5.7
Depths to Length - Main Deck to top of Keel 9.78
Destined Voyage

If Surveyed while Building, Afloat, or in Dry Dock

Table with columns: LENGTH on Deck as per Rule, BREADTH - Moulded, DEPTH - Top of Floors to Main Deck Beams, Power of Engines, Horse, No. of Decks with Flat laid, No. of Tiers of Beams.

Dimensions of Ship per Register, Length, 115.0 breadth, 20.5 depth, 10.9.

Moulded Depth, ft. 11 ins. Round of Beam 8 inches.

FORGINGS AND CASTINGS.

Table for Forgings and Castings with columns: EL, Bar or Side Plates, M, moulding, RN-POST, Y PIECE of Rudder, DER, how constructed.

FRAMING.

Table for Framing with columns: ME, Angles, REVERSED FRAME, FLOORS, FLOORS & BRACKETS, CENTRE GIRDER, SIDE GIRDERS, MARGIN PLATE, INNER BOTTOM PLATING, BEAMS, BEAMS, Hold, BEAMS, Poop Deck, BEAMS, Bridge Deck, BEAMS, Forecastle Deck, BEAMS, In 'tween Decks, WEB FRAMES, WTB FRAMES, BRACKET PLATES.

KEELSONS AND STRINGERS.

Table for Keelsons and Stringers with columns: CENTRE LINE KEELSON, SIDE KEELSON, BILGE KEELSON, BILGE STRINGER, SIDE STRINGER, Main and Raised Quarter Deck Stringer, Lower Deck Stringer Plate, Hold Stringer Plate, Poop Deck Stringer Plate, Bridge Deck Stringer Plate, Forecastle Deck Stringer Plate.

PLATING.

Table for Plating with columns: FLAT PLATE KEEL, PLATES in Garboard Strakes, Sheerstrake, Poop Sides, Raised Quarter Deck Sides, Bridge Sides, Forecastle Sides.

Ceiling betwixt Decks, thickness and material	BULKHEADS.			No. in Vessel		No. Req'd. by Rule	
	Thickness.	Angles.	Spacing.	Height up.	Sngl. or Dbl. Frames.		
" in hold do. do.	W. T. BULKHEADS	5/16	Vrtcl. 3/2 x 1/2 30 Hrztl. 2 1/2 x 2 1/2 48	Upper Deck	Double		
Number of Breasthooks	PARTITION...						
" Crutches	LONGITUDINAL						

The FRAMES extend in one length from Keel to Main Deck Stringer Riveted through Plates with 5/8 in. Rivets, about 4 1/2 apart  
 The REVERSED ANGLE on floors and frames extend from Bilge to Bilge in one length

**RIVETING OF EDGES AND BUTTS OF SHELL PLATING AND BUTTS OF STRINGER PLATES, TIE PLATES, KEELSONS, &c.**  
 Garboards, double riveted to Bar Keel or Flat Plate Keel, with rivets 7/8 in. diameter, averaging 4 3/8 ins. from centre to centre.  
 Edges of Garboards and to upper part of Bilge, worked clincher, double riveted; with rivets 9/4 in. diameter, averaging 3 1/2 ins. from centre to centre.  
 Butts from Keel to turn of Bilge, worked carvel, treble or double riveted, treble for whole length, with rivets 1 1/4 in. dia., averaging 2 7/8 ins. from cr. to cr.  
 Butts of Strakes at Bilge for whole length, treble riveted with Butt Straps thicker than the plates they connect. overlapped butts  
 Edges from Bilge to Sheerstrake, worked clincher, double or single riveted; with rivets 7/8 in. dia., averaging 3 1/2 ins. from centre to centre.  
 Butts from Bilge to Sheerstrake, worked carvel, treble or double riveted; treble for whole length, with rivets 1 1/4 in. dia., averaging 2 7/8 ins. from cr. to cr.  
 Edges of Sheerstrake, double or single riveted. Butts of Sheerstrake, treble riveted for whole length amidships.  
 Butts of Main Stringer Plate, treble riveted for whole length amidships. Single or Double Butt Straps to Stringer Plate for whole length.  
 Butts of Inner Bottom Plating, riveted for whole length. Butts of Centre Girders, riveted.  
 Breadth of edge laps of Shell Plating in double riveting 4 1/2. Breadth of edge laps of Shell Plating in single riveting 2 1/2  
 Butt Straps of Shell Plating breadth and thickness 9/4 x 20. Butts, if Lapped, breadth of laps 4 1/2  
 Butt Straps of Keelsons, Stringer and Tie Plates, treble or double riveted?

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.?  
 Clyde Bridge Steel Works, Crossland Steel Works, Newlon Steel Works, Blochairn Steel Works.  
**Workmanship.** Are the butts of plating planed or otherwise fitted? planed  
 Is the riveted work properly closed? Yes  
 Are the liners between the frames and plates solid single pieces? Yes  
 Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes  
 Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? Yes  
 Do any rivets break into or through the seams or butts of the plating? A few in butts  
 Are the butts of Plating, Stringers, &c., properly shifted and strapped? Yes

**MASTS, SPARS, &c.**

Material	Total Length	DIAMETER AND THICKNESS.			No. of Plates in round.	ANGLES.		RIVETING.	
		At Partners.	Heel.	Hounds.		Head.	Number.	Size.	Seams.
Fore	Pitch Pine 58.6	13/12	11		10/12				
LOWER MASTS...	Main	38.6	clipped on deck	9	7				
	Mizen								

Bowsprit  
 Topmasts, Yards and Remainder of Spars  
 Rigging, Material and Size, Shrouds Wire Rope 2 1/2 Stays wire rope 3  
 Sails, fore main sail Suit of 7 staysail Sails, and the following spare sails

**EQUIPMENT NO. LETTER ANCHORS.**

Number of Certificate.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE.			WEIGHT REQ. BY RULE			Description of Anchor.	Makers.	Where and when tested and Superintendent.
	Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	qrs.	lbs.	Cwts.	qrs.	lbs.			
27977	5	1	8				7	14	0	7	4	1		Cast Steel Head	
27976	5	0	25				7	11	3	14	4	1		Stockless.	Syacks Patent Grey House
3rd "														"	"
Collective weight	10	2	5				8	2							D. & Lewis
Stream	1	3	14				1	1							
Kedge															
2nd Kedge															

**CHAIN CABLES.**

Number of Certificate.	Fathoms.	Size.	Test per Certificate. Tons.	Weight of Chain Cable.	Fathoms & Size. Per Rule.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Fathoms.	Size.	Fathoms & Size. Per Rule.
19454	120	3/4	15 7/8	10 7/8	120 x 3/4	Shed link galvanized	Lloyds		TOWLINE Hemp	45	6	75 x 6
19471	45	9/16	7 1/2	3 3/4	45 x 9/16	plain link	Lloyds		Hawser	90	4	90 x 4

**HAWSERS AND WARPS.**

Boats One  
 Pumps, Number Three Diameter of Barrel and Tail Pipe 3 1/2 x 1 1/2  
 The Windlass is Steam Capstan Steam winch  
 Engine Room Skylights.—How constructed? Leak  
 What arrangements for deadlights in bad weather? Bulls eyes  
 Coal Bunker Openings.—How constructed? cast iron How are lids secured? Kate's lids Height above deck? fair pull, dist  
 Number of Scuppers, and number and dimensions of Freeing Ports, &c. 8 scuppers & 8 Ports 24 x 8  
 Cargo Hatchways.—How formed? plates & angle  
 State size No. 1 Hatch (Forward) 4.0 x 5.6 No. 2 Hatch No. 3 Hatch No. 4 Hatch  
 Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch  
 Bulwarks, height above deck and description Steel 3.0 Main Rail, material and size Pitch Pine 8 x 3

The above is a correct description.  
 Builder's Signature, (here only) Coa & Co  
 Surveyor's Signature, J. H. Landrey  
 Surveyor to Lloyd's Register of British and Foreign Shipping.

Order for Special Survey No. 121  
 Date 23 Nov 1899  
 Order for Ordinary Survey No.  
 Date  
 No. 33 in builder's yard.  
 DATES OF SURVEYS held while building as per Section 18:  
 1st. On the several parts of the frame, when in place, and before the plating was wrought April 10, 17, 25; May 14, 16,  
 2nd. On the plating during the process of riveting June 3, July 25, October 5,  
 3rd. When the beams were in and fastened, and before the decks were laid 22, November 8, 22, January 3,  
 4th. When the ship was complete, and before the plating was finally coated or cemented 7, February 3, March 2,  
 5th. After the ship was launched and equipped  
 Total No. of Visits 14

State dates and initials of letters respecting this case November 25, 26 M. 4 December (W) 26 January (M).  
 General Remarks (State quality of workmanship, &c.) Good. This vessel is well built in accordance with the annexed tracings of midship section and profile, and in all other respects, as required by the Rules the collision bulkhead tested as required by the Rules and found good.

Copy of Certificate of Cast Steel Leads, of Syacks Patent Anchor.

**PARTICULARS FOR RECORD in the REGISTER BOOK.**—Length of Poop ft., R.Q.D. or Break ft., Bridge Dk. ft., F'castle ft. (in feet and tenths) where the Poop is on top of the R.Q.D., or when the Poop or R.Q.D. is joined to the B.D., this should be distinctly stated

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book)  
 Official No. ; Signal Letters

**PARTICULARS OF WATER BALLAST.**  
 Double bottom, aft, length and water capacity in tons Double bottom, forward, length and water capacity in tons  
 Double bottom, under engines and boilers, length and water capacity in tons If under Engines only, or Boilers only, state which and water capacity in tons  
 Double bottom, constructed on the cellular system, length and water capacity in tons  
 Fore peak tank, water capacity in tons After peak tank, water capacity in tons  
 Midship deep tank, length and water capacity in tons Other tanks, if fitted, length and water capacity in tons  
 The above have been tested as required by the Rules.  
 (If necessary, furnish further information by sketch.)  
 How are the surfaces preserved from oxidation? Inside Paint & Cement Outside Paint

**FREEBOARD** assigned by the Committee, as per Secretary's Letter, dated  
 In Summer ft. ins.  
 In Winter ft. ins.  
 For Winter in North Atlantic ft. ins.  
 State if marked on Vessel's sides in accordance with Notice No. 672 Fresh Water above the centre of disc ft. ins.

The amount of Entry Fee, £ : : is received by me, J. H. Landrey  
 Special £ 9 : 4 26 March 1891  
 Certificate £ : :  
 Travelling Expenses, if any £ : :  
 I am of opinion this Vessel should be Classed \* 100 M  
 Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUES. 7 APR 1891  
 Character assigned + L. hrb 3/9 100A 1 Steel  
 L. hrb 1 Deck  
 It is submitted that this vessel appears eligible to be Classed 100A 1 (Steel) as recommended.  
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