

IRON SHIPS.

Iron No 51441

No. 20240 Survey held at Liverpool Date 8th May to 16th October 1886
on the s. "British Consul" Moriatta Master

Tonnage under tonnage deck 1198.26 Built at Liverpool When built 1886 Launched 4th Aug
Ditto of poop 68.28 or spar deck
Ditto of engine room
Total Register tonnage 1266.54 Port belonging to Liverpool Destined Voyage San Francisco
Gross tonnage 1266.54
of Surveyed while Building, Afloat, or in Dry Dock Specially while building

Length aloft	Feet.	Inches.	Extreme Breadth	Feet.	Inches.	Depth from top of Upper Deck Beam to top of Floor	Feet.	Inches.	Power of Engines	Horse.	No. of Decks
210			35	7 1/2		22	6				2

Dimensions of Ship per Register, length 214-9 breadth 36 depth 22-6

	Inches in Ship.	Inches required per Rule.	Inches in Ship.	Inches required per Rule.	Inches in Ship.	Inches required per Rule.	Inches in Ship.	Inches required per Rule.
Plates in Garboard Strakes, breadth and thickness	36	13/16	36	13/16				
Ditto from Garboard to upper part of Bilges		12/16		12/16				
" from upper part of Bilge to a perpendicular height from upper side of Keel of 3/8ths the entire depth of Hold		11/16		11/16				
" from 3/8ths depth of Hold to lower edge of Sheerstrake		9 2/10		9 2/10				
" Sheerstrake, breadth and thickness	35	12/16	36	12/16				
Butt Straps to outside plating, breadth and thickness	11	9 5/13	9 3/4	9 5/13				
Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness	30	10/16	30	10/16				
Angle Iron on ditto	5 x 4 1/2 x 9/16	full	5 x 4 1/2 x 9/16	full				
Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways	13 1/4	10/16	12 3/4	10/16				
Diagonal Tie Plates on ditto	13	10/16	12 3/4	10/16				
Planksheer, materials and scantlings								
Waterway ditto ditto								
Flat of Upper Deck, thickness and material	4 Pine	14	14					
" " how fastened to Beams	Screws bolts with nuts							
Ceiling betwixt Decks and in Hold, thickness and material	Red Pine	3 2 1/2						
Clamps or Spirketting ditto								
Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness	23	10/16						
Stringer or Tie Plates fore and aft outside Hatchways, on Hold or Lower Deck Beams	13 1/4	10/16	13 1/2	10/16				
Stringers in Hold	5 x 4 1/2 x 9/16	full	5 x 4 1/2 x 9/16	full				
Flat of Lower Deck, thickness and material	4 Pine 3							
Main piece of Rudder, diameter at head	6 1/2	6						
" " " at heel	3 1/2	3 1/4						
(Can the Rudder be unshipped afloat)	Yes							
Bulkheads, No. 1 Thickness of	7/16							
" Height up	Main Deck							
" how secured to the sides of the ship	Single frames & Buckle knees							
" size of vertical angle irons	3 1/2 x 3 x 8/16							
" and their distance apart	30 Ins							
Frames extend in one length from	Keel							
reverse angle irons on the floors extend in one length across the middle line from	Bilge Keelsons to Bilge Keelson and from thence to hold beam stringer on remaining floors							
" " " on the frames	" " " from Middle line to lower hold stringer thence to Gunwale							
Keelson, how are the various lengths of plates or angle irons connected?	By butt straps							
Plates, Garboard, double or	rivettted to keel, double or							
" at upper edge, with rivets	(1/8 x 7/8 ins.) diameter, averaging (4 1/3 in.) apart.							
" Edges from Garboards to upper part of bilge, worked clencher, double or single rivettted; with rivets	(in.) diameter, averaging (2 5/8 ins.) apart.							
" Butts from Keel to turn of bilge, worked carvel with butt straps	(12 7/8) thick, double or single rivettted; with rivets (7/8 in.) diameter, averaging (2 5/8 ins.) apart.							
" Do the butt straps lap over and rivet through the lands of the strake below?	No							
" Edges from bilge to sheerstrake, worked carvel with a lining piece () thick, or clencher, double or single rivettted; with rivets	(7/8 in.) diameter, averaging (2 5/8 in.) apart.							
" Do the butt straps lap over and rivet through the lands of the strake below?	No							
" Edges of Sheerstrake, double or single rivettted? At upper edge	Single							
" At lower edge	double							
" Butts from bilge to planksheers, worked carvel with butt straps	(9 5/12) thick, double or single rivettted; with rivets (7/8 in.) diameter, averaging (2 5/8 ins.) apart. Breadth of laps in double rivetting (5 In) Breadth of laps in single rivetting (none)							
Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivettted?	Double							
Planksheer, how secured to the plating of the sides	Explain by sketch							
Waterway " " planksheer and to the Beams	if necessary.							
Deck Beams, how secured to the side?	By Bulb plate knees welded to Beams							
Hold or Lower Deck ditto	and rivettted to frames							
Paddle " "								
No. of breasthooks	four							
crutches	four							
What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.?	Beams & Angle Iron							
Manufacturer's name or trade mark	Bates Install Iron Works							

We certify that the above is a correct description of the several particulars therein given.
Builder's Signature (Sgd) Thomas Royden & Son Surveyor's Signature (Sgd) Will. C. Dancy
IRON 440-0150

5141

Iron

Workmanship. Are the lands or laps of the clenchwork in all cases in breadth at least five and a half times the diameter of the rivets in double rivetted edges and butts, and at least three and a quarter times the diameter of the rivets where single rivetting is admitted? Yes

Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? Yes

Do the fillings between the ribs and plates fill in solid with single pieces? or are they in short lengths of various thicknesses? Solid nearly all in single

Do the holes for rivetting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes and are the rivet holes well and sufficiently countersunk in the outer plate? Yes

Are there any rivets which either break into or have been put through the seams or butts of the plating? very few

Her Masts, Bowsprit, Yards, &c., are in Good condition, and sufficient in size and length. (If they are of Iron or Steel give the Scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, showing the number of Plates and Angle Irons, mode of rivetting, quality of Materials, and if stamped with Maker's name.

Main Mast 62 ft 29 in } of two plates 7/16 thick
Fore " 58 x 29 " } and 1/16 at head. 4
Mizen " 53 x 23 " } angle Irons run the
Bowsprit " 23 x 26 " } whole length 4 1/2 x 3 x 7/16
She has SAILS. } Seams single rivetted
CABLES, &c. } and butts double rivetted
Butt straps 9 x 5/16

Fore & Main Yards 81 ft x 18 in. Luff 60 ft 5 in of two plates 5/16 in the middle & 4/16 at end 3 Angle Irons 3 x 2 1/2 x 7/16 Edges single rivetted, treble rivetted Butts in the centre & double at ends Fore & Main topsail yards 68 ft x 16 in. Mizzen topsail yards 49 x 11 in. Fore Main upper topsail yards 62 ft x 15 in made as lower yards but with 2 angle irons 3 x 2 1/2 x 7/16 ANCHORS, and their weights.

N ^o .		Let at Mersey Dock Cardiff.	Fathoms.	Inches.	Tested to Tons.		N ^o .	Weight Ex. Stock	Tested Tons.
2	Fore Sails,	Chain	500	1 3/8	59	Bowers,	3	33.4.2	31.0
2	Fore Top Sails,	Hempen Stream Cable (chain) 90		1				32.3.24	30.1
2	Fore Topmast Stay Sails,	Hawser	90	9				27.3.0	26.7
2	Main Sails,	Towlines	90	11 1/2		Stream,	1	13.2.24	
2	Main Top Sails,	Warp	180	8		Kedges,	2	7.0.8	
	and two suits of sails	All of <u>good</u> quality.						3.1.0	

Her Standing and Running Rigging is Wire & Hemp sufficient in size and good in quality.

She has 2 Life Boats Long Boat and 2 Pinnaces & a gig

The present state of the Windlass is Good Capstans 3 No and Rudder good Pumps 3 No & 2 Bilge Pump

Order for Special Survey No. 419 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 2nd. On the plating during the progress of rivetting 3rd. When the beams were in and fastened, and before the decks were laid 4th. When the ship was complete, and before the plating was finally coated 5th. After the ship was launched

Special
while
Building

State if she has a Spar Deck No Poop No or Forecastle Yes

General Remarks,

This vessel is a sister ship to the British Envoy Rep. N^o 20127 The Angle Irons of Keelsons are small in one flange but are fully in thickness; there are also 3 or 4 short intercostal plates at each end 1/16 instead of 1/16; the main keelson is much in excess of the Rules. There is also attached to the lower hold stringer a Bulb plate same size as the hold Beams for 112 ft amidships and she has also an extra stringer in hold of Double Angle Irons same size as Keelson Angle Iron extending from Bulkhead to abreast of Mizzen Mast

In what manner are the surfaces preserved from oxidation? Inside by Cement coating below bilges & paint Outside Paint

I am of opinion this Vessel should be Classed + A 1

The amount of the Fee£ : : is received by me,

Special£ : :

Certificate (if required)£ : :

Committee's Minute Liverpool 2nd Nov 18 66

Character assigned



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