

3658 IRON SHIPS.

No. 1885 Survey held at Preston & Liverpool Date Oct 9, 1863 - July 8-1864
 in the B.R. Eastham Master Robert Rennie
 Tonnage Gross 1011⁰⁵ Engine Room 582⁴¹ Register 611⁰⁵ Built at Preston
 When Built 1864 Launched March 24, 1864 By whom built J. H. Mackern
 Owners & Tennants Port belonging to Liverpool Destined Voyage Madras
 Surveyed Afloat or in Dry Dock Whilst building under Special Survey: 500 ton scale

Rec 20/7/62

Length aloft	Feet. 160	Inches. 11	Extreme Breadth....	Feet. 28	Inches. 11	Depth from top of Upper Deck } Beam to top of Floor.....	Feet. 18	Inches. 6	Power of Engines....	Horse.
of Frames or Ribs from moulding to moulding edge, all fore and aft	21 ¹ / ₂	8 ¹ / ₂	plate	21						
Size of Angle Iron, and No. / at bottom of Floor Plate.....	3 ¹ / ₂	2 ¹ / ₂	1 ¹ / ₂	3 ¹ / ₂	2 ¹ / ₂	1 ¹ / ₂	7 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₂	
depth and thickness of Floor Plate at mid line	19	8 ¹ / ₂	1 ¹ / ₂	19	8 ¹ / ₂	1 ¹ / ₂	7 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₂	
depth and thickness of Floor Plate at Bilge Keelson	10	-	-	-	-	-	7	2 ¹ / ₂	1 ¹ / ₂	
Size of Reversed Angle Iron, and No. / at top of Floor Plate..	3	2 ¹ / ₂	6 ¹ / ₂	3	2 ¹ / ₂	6 ¹ / ₂	2 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₂	
Frames, Size of Angle Iron, single or double..	3 ¹ / ₂	2 ¹ / ₂	1 ¹ / ₂	3 ¹ / ₂	2 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₂	
" " Reversed Iron, to every frame	3	2 ¹ / ₂	6 ¹ / ₂	3	2 ¹ / ₂	6 ¹ / ₂	2 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₂	
Beams, Deck (N°. 46) double Angle Iron, Rate, & Bulb Iron.....	7	7 ¹ / ₂	1 ¹ / ₂	7	7 ¹ / ₂	1 ¹ / ₂	7	2 ¹ / ₂	1 ¹ / ₂	
double on single Angle Iron, on top edge.....	3	2 ¹ / ₂	6 ¹ / ₂	3	2 ¹ / ₂	6 ¹ / ₂	2 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₂	
" " average space between	3 ¹ / ₂ 6 in	13	11-6 in							
" " (N°.) sided & mortised	-	-	-	-	-	-				
Hold, or Lower Deck (N°. 44) double Angle Iron, Rate, & Bulb Iron	7	7 ¹ / ₂	1 ¹ / ₂	7	7 ¹ / ₂	1 ¹ / ₂	7	2 ¹ / ₂	1 ¹ / ₂	
" " double on single Angle Iron on top edge.....	3	2 ¹ / ₂	6 ¹ / ₂	3	2 ¹ / ₂	6 ¹ / ₂	2 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₂	
" " average space between	3 ¹ / ₂ 6 in	13	11-6 in							
" " (N°.) sided & mortised	-	-	-	-	-	-				
Ribbed, wood, sided and mortised, or iron, size of Rate	3 ¹ / ₂ plate	9 ¹ / ₂ 6 ¹ / ₂	angle bar 4x4-8 ¹ / ₂	3 ¹ / ₂ plate	9 ¹ / ₂ 6 ¹ / ₂	angle bar 4x4-8 ¹ / ₂	3 ¹ / ₂ plate	9 ¹ / ₂ 6 ¹ / ₂	angle bar 4x4-8 ¹ / ₂	
Keelson, single plate, box, or intercostal	3 ¹ / ₂ plate	9 ¹ / ₂ 6 ¹ / ₂	angle bar 4x4-8 ¹ / ₂	3 ¹ / ₂ plate	9 ¹ / ₂ 6 ¹ / ₂	angle bar 4x4-8 ¹ / ₂	3 ¹ / ₂ plate	9 ¹ / ₂ 6 ¹ / ₂	angle bar 4x4-8 ¹ / ₂	
Size of Plates										
Size of Angle Irons										
Ditto Bilge (No. 1)										

Transoms, material None or, if none, in what manner compensated for.

Knight-heads, and Hawse Timbers None

The Frames or Ribs extend in one length from Keel to Gunwale

riveted through plates with (1/2 in.) rivets, about (6) apart. in. apart vertically to the tops of the bilges.

The reverse angle irons on the floors extend in one length across the middle line from Bilge to Bilge to form about 3 ft on one side of Middle line to above

" " on the frames " " " from Bilge to Gunwale on alternate Ribs

Keelson, how are the various lengths of plates or angle irons connected? Butt Straps

Plates, Garboard, double ~~single~~ riveted to keel & at upper edge, with rivets (1/2 ins.) diameter averaging (3 in.) from centre to centre of rivets.

" Edges from Garboards to upper part of bilge, worked carvel with a lining piece (in) thick, or clencher, double ~~single~~ riveted; rivets (1/4 in.) diameter, averaging (3 ins.) from centre to centre of rivets.

" Butts from Keel to turn of bilge, worked carvel with a lining piece (in) thick, double ~~single~~ riveted; rivets (1/4 in.) diameter, averaging (3 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the stake below? Yes in alternate staves

" Edges from bilge to sheerstrake, worked carvel with a lining piece (in) thick, or clencher, double ~~single~~ riveted; rivets (1/4 in.) diameter, averaging (3 ins.) from centre to centre of rivets. Backing piece lap over and rivet through the lands of the stake below

" Edge of Sheerstrake, double ~~single~~ riveted? 3/4 Rivets 3 in apart

" Butts from bilge to planksheer, worked carvel with a lining piece (in) thick, double ~~single~~ riveted; rivets (1/4 in.) diameter, averaging (3 ins.) from centre to centre of rivets. Breadth of laps in double rivetting (4 1/2) Breadth of laps in single rivetting (2 1/2)

Butt Straps of Keelsons, Stringer and Tie Plates, double ~~single~~ riveted? All double riveted

Planksheer, how secured to the plating of the sides Explain by sketch { See the others if necessary.

Waterway " " planksheer and to the Beams

Deck Beams, how secured to the side? Riveted to Ribs and Stringer Plate.

Hold or Lower Deck " Riveted to Ribs and Stringer Plate.

Paddle " " None

No. of breasthooks " crutches " how are pointers compensated? Keelsons, Stringer plates & Ribs connected.

What description of iron is used for the angle iron and plate iron in the vessel? Best Iron Staffordshire

Builder's Signature

J. H. Mackern

Lloyd's Register Foundation

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3658 Strom

Workmanship. Are the lands or laps of the clenchwork in all cases in breadth at least five times the diameter of the rivets in double riveted

edges and butts, and at least three times the diameter of the rivets where single rivetting is admitted? Yes

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

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

Do the holes for rivetting plate to frames, lining pieces, or plate to plate, &c., conform well to each other? Yes generally 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? A few in butts only

Lower Masts, Bowspur & lower part of stem
Her Masts, Yards, &c., are in Good condition, and sufficient in size and length.

She has SAILS.

*One entire sail
of several have butts
or need a double seam*

N.
Fore Sails,
Fore Top Sails,
Fore Topmast Stay Sails,
Main Sails,
Main Top Sails,

and

CABLES, &c.

Makers Certificate C Blooms	Fathoms.	Inches.
Chain 40 $\frac{1}{2}$ fms. Chain	270	18 $\frac{1}{2}$
Hemp Stream Cable	90	11
Fin g-4-2 Chain	75	7 $\frac{1}{2}$
Hawser	75	7 $\frac{1}{2}$
Towlines	90	8
Warp	90	5
All of <u>good</u> quality.		

ANCHORS, and their weights.

Blooms Patent maker certificate C Blooms	N. 3	Weight. 251-14
Bower,		251-25
Stream,	1	24-1-15
Kedge,	2	9-1-21

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

She has one Long Boat and two others

The present state of the Windlass is bad Capstan good and Rudder bad Pumps 2 in Main hold & 1 each end.

General Remarks, Statement and Date of Repairs, extent of corrosion (if any) both internally and externally, and condition of rivets.

DATES of Surveys held while building, as per Section 17.

- 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

During construction

During

When surveying her I found a good part of the Upper deck laid and no diagonal plates on the beams, so they were put on the lower hole beams. The Upper deck stringer plates are $6\frac{1}{2}$ inches wider than required or equal to a tie $12\frac{1}{2}$ in extra and the lower hole stringers are $5\frac{1}{2}$ in wider, making a tie plate $10\frac{1}{2}$ in in excess of the Rules.

She has angle iron on both sides of the bulkheads $4\frac{1}{2}$ apart, on one side they are placed vertically & the other athwartship.

The butts of floor plates are triple riveted & there are pieces of angle iron across the middle line, riveted back to back to ribs and floor plates, also through the garboard plates.

There is a deck house aft for the cabin officers, and another abaft the forecastle for the crew, also a Monkey Forecastle.

The middle line keelson is formed with double plates, on a foundation plate, double angle iron to top and bottom, also a plate on the top of all.

In what manner are the surfaces preserved from oxidation? Cement & Repaint

† A1

I am of opinion this Vessel should be classed

Lower Masts & Bowspur Iron.

Plates $\frac{1}{2}$ in. $\frac{1}{4}$ in. 3 angle iron

$4 \times 3 - \frac{1}{4}$ in. Butts double riveted

$\frac{1}{2}$ Single in Edges.

Lower Yards Iron

Plates $5\frac{1}{2}$ - $4\frac{1}{2}$ in. $\frac{1}{4}$ in. 3 angle iron

$4 \times 3 - \frac{1}{4}$ in. 3 butts on each side of centre of yard

triple riveted the rest double.

Edges single riveted.

The amount of the Fee £ 5 : " : " is received by me,

J. H.

Special

£ 30: 11: -

Chewhouse Martindale.

Certificate (if required) £ " " 18/7/64

Committee's Minute *April 22nd July 1864*

Character assigned

A1 Built under Special Survey

GK

Ex Parte
25 July 1864

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