

IRON SHIPS.

No. 2307 Survey held at Midleshaw Date 26th Aug. 1864
 on the Screw Steamer "Baira" Master
 Tonnage Gross 572 1/100 Engine Room 136 56/100 Register 436 13/100 Built at Midleshaw
 When Built 1864 Launched 6th August By whom built Backhouse & Dixon
 Owners Shaple Dutt & Co belonging to Liverpool Destined Voyage Mediterranean
 If Surveyed Afloat or in Dry Dock While building

Length aloft	Feet.	Inches.	Extreme Breadth	Feet.	Inches.	Depth from top of Upper Deck	Feet.	Inches.	Beam to top of Floor	Feet.	Inches.	Power of Engines	Horse.
174	4	10	27	2	10	16	3	10	96				
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft	21		21										
Floors, Size of Angle Iron, and No. <u>one</u> at bottom of Floor Plate	3 1/2	3	7 1/16	3 3/4	2 3/4	7 1/16							
depth and thickness of Floor Plate at mid line	17 1/2	0 1/16	17 3/4	0 1/16	0 1/16								
depth and thickness of Floor Plate at Bilge Keelson	8	0 1/16	0	0 1/16	0 1/16								
Size of Reversed Angle Iron, and No. <u>one</u> at top of Floor Plate	3	2 1/2	6 1/16	3	2 1/2	6 1/16							
Frames, Size of Angle Iron, single or double	3 1/2	3	7 1/16	3 3/4	2 3/4	7 1/16							
Reversed Iron, if to every frame or every <u>other</u> frame	3	2 1/2	6 1/16	3	2 1/2	6 1/16							
Beams, Deck (No. <u>53</u>) double Angle Iron, Plate, or Bulb Iron	7	+	7 1/16	7	+	7 1/16							
double or single Angle Iron, on <u>top</u> edge	2 1/2	2 1/2	5 1/16	2 1/2	2 1/2	5 1/16							
average space between	42		42		Inches								
if wood (No. <u>29</u>) sided & moulded	7		7		+								
Hold, or Lower Deck (No. <u>29</u>) double Angle Iron, Plate, or Bulb Iron	7	+	7 1/16	7	+	7 1/16							
double or single Angle Iron, on <u>top</u> edge	3	2 1/2	6 1/16	2 1/2	2 1/2	5 1/16							
average space between	12		12		+								
if wood (No. <u>29</u>) sided & moulded	4		4		3								
Paddle, wood, sided and moulded, or if Iron, size of Plate	4		4		3								
Engine	12		12		+								
Keelson, single plate, box, or intercostal	12	+	10 1/16	12	+	10 1/16							
Size of Plates	4	3	0 1/16	4 1/4	6 1/4	7 1/16							
Size of Angle Irons	4	3	0 1/16	4 1/4	3 1/4	7 1/16							
Ditto Bilge (No. <u>two</u>) Double Ang. Iron	3	0 1/16	4 1/4	3 1/4	7 1/16								
Transoms, material <u>Plate</u> or, if none, in what manner compensated for													
Knight heads, and Hawse <u>Timbers</u> <u>German Oak</u>													
The Frames or Ribs extend in one length from <u>Keel</u> to <u>gunwale</u>													
The reverse angle irons on the floors extend in one length across the middle line from <u>top of bilge</u> to <u>top of bilge</u>													
on the frames, from <u>bilge</u> to <u>gunwale</u> on <u>alternate frames</u>													
Keelson, how are the various lengths of plates or angle irons connected? <u>butts of angle irons & plates shifted & rivetted</u>													
Plates, Garboard, double or single rivetted to keel & at upper edge, with rivets (1 ins.) diameter averaging (4 1/4 ins.) from centre to centre of rivet.													
Edges from Garboards to upper part of bilge, worked <u>carvel</u> with a lining piece (1 in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 ins.) from centre to centre of rivets.													
Butts from Keel to turn of bilge, worked <u>carvel</u> with a lining piece (9 x 1/16) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? <u>no</u>													
Edges from bilge to sheerstrake, worked <u>carvel</u> with a lining piece (1 in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? <u>no</u>													
Edge of Sheerstrake, double or single rivetted? <u>Double</u>													
Butts from bilge to planksheers, worked <u>carvel</u> with a lining piece (9 x 1/16) thick, double or single rivetted; rivets (3/4 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 3/4)													
Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted? <u>Double</u>													
Planksheer, how secured to the plating of the sides													
Waterway, planksheer and to the Beams													
Deck Beams, how secured to the side? <u>Beam ends turned & pieces welded</u>													
Hold or Lower Deck, <u>Same as Deck</u>													
Paddle, <u>None</u>													
No. of breasthooks <u>Five</u> crutches <u>Two</u> how are pointers compensated?													
What description of iron is used for the angle iron and plate iron in the vessel? <u>By Dofel Bros of Midleshaw</u>													
Builder's Signature <u>Backhouse & Dixon</u>													

3709 *Swanley*

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 rivetted 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 lay close together throughout their length without requiring any making good of deficiencies? *Any do.*

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

Do the holes for rivetting plate to frames, lining pieces, or plate to plate, &c., conform well to each other? *Yes* and are the rivet holes well and sufficiently countersunk in the outer plate? *All through*

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

Her Masts, Yards, &c., are in *Good* condition, and sufficient in size and length.
She has *SAILS* CABLES, &c.

ANCHORS, and their weights.

N ^o .			Fathoms.		Inches.		No.	Weight.
	Fore Sails,	Chain	240		1 1/4		Bower, <i>By Rodgers</i>	3 20.1.21
	Fore Top Sails,	Rampan Stream Cable	90		3/4			20.1.21
	Fore Topmast Stay Sails,	Hawser	190		5 1/2		Stream,	1 16.0.0
	Main Sails,	Towlines	90		7 1/2			
	Main Top Sails,	Warp	75		3 3/4		Kedge,	2 2.3.0
		All of <i>Good</i> quality.	25		3 1/2			2.3.14

Her Standing and Running Rigging *Wire & Hemp* sufficient in size and *Good* in quality.

She has *Two life* ~~Boat~~ *Boat* and *Boat*

The present state of the Windlass is *Good* Capstan *Two Winches* and Rudder *Good* Pumps *Four of Copper & Lead*

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
- Special Survey No of order 1009*
First Survey 5th February 1864
Last Survey 26th Aug (1864)

Has a Raised deck frames all to the top height. Plating 6/16 single rivetted at edges double at butts. rivets 5/8 spaced 3in. Beams the same as main deck. Stringers on end of do. 22 x 7/16. Angle irons on do. 3 1/2 x 3 x 7/16. Flat of deck 3 in. y Pine waterways 5 x 10 R. Pine & y Oak. Sheerstrakes doubled with 9 x 7/16 plate for three fourths the hulls length. top edge being flush with upper part of gunwale angle irons. Intercoastal Keelsons fitted on each side of middle line, plates 17 x 9/16 double angle Irons 4 1/2 x 3 x 7/16

Backhouse & Dixon

In what manner are the surfaces preserved from oxidation?

Flat of hold cemented with Portland cement other parts with two coats of paint

I am of opinion this Vessel should be classed *A 1*

The amount of the Fee£ 5 : 0 : 0 is received by me,

Ant. W. M. Special£ 20 : 12 : 0

Certificate (if required)£ : :

Committee's Minute *30th August 1864*

Character assigned *A 1*

I concur in the above decision

27 Aug 1864 J. R. E.



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