

IRON SHIPS.

Rec 29/4/04

No. 8098 Survey held at Sunderland 3563 Jan Date April 28 1864
 on the Steam Steamer "Thames" Master

Tonnage Gross 1376¹³/₁₂ tons Engine Room 280¹³/₁₂ tons Register 100⁹/₈ tons Built at Sunderland
 When Built 1863-4 Launched April 1864 By whom built Messrs Oswald & Co.
 Owners Messrs. Gomfry Port belonging to London Destined Voyage Montreal
 If Surveyed Afloat or in Dry Dock Whelk 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.
Length aloft	25 7	Extreme Breadth....	32 3	Depth from top of Upper Deck } Beam to top of Floor.....	25 3	Power of Engines....	170
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft } Inches in Ships.	21	Inches required per Rule.	21	Stem, if bar iron, moulding and thickness	9 3	16ths In Ship.	16ths required per Rule.
Floors, Size of Angle Iron, and No. one at bottom of Floor Plate.....	4 1/2 3 1/2 7 1/2	Inches. required per Rule.	4 1/2 3	" if plate iron, breadth and thickness	7 1/2 5	In Ship.	16ths required per Rule.
,, depth and thickness of Floor Plate at mid line	2 1/2 2 1/2 2 1/2	Inches. required per Rule.	2 1/2 2 1/2	Stern-post, if bar iron, moulding and thickness	9 1/2 4 1/2	In Ship.	16ths required per Rule.
,, depth and thickness of Floor Plate at Bilge Keelson	8 9 1/2 4 1/2	Inches. required per Rule.	8 9 1/2	Keel, if bar iron, depth and thickness	7 1/2 3	In Ship.	16ths required per Rule.
,, Size of Reversed Angle Iron, and No. one at top of Floor Plate...	3 3 7 1/2 3 3	Inches. required per Rule.	3 3 7 1/2	" if plate iron, breadth and thickness	7 1/2 3	In Ship.	16ths required per Rule.
Frames, Size of Angle Iron, single or double	4 1/2 3 1/2 7 1/2 4 1/2 3	Inches. required per Rule.	4 1/2 3 1/2 7 1/2	Garboard Plates, Breadth and thickness	3 2 1/2 1/16	Description of Iron.	30 x 1 1/16
Reversed Iron, to every frame, to middle deck, slender edge now for 10 ft. amidships to every other frame, to upper deck for same length	3 3 7 1/2 3 3	Inches. required per Rule.	3 3 7 1/2 3 3	From Garboard to upper part of Bilge	7 1/2		1/16
Beams, Deck (No. 55) double Angle Iron, Middle Plate, or Bulb Iron.....	8 9 1/2 8	Inches. required per Rule.	8 9 1/2 8	From upper part of Bilge to Sheerstrakes 3 1/2 ft. wide	19 1/2		19 1/2
,, double or single Angle Iron, on upper edge.....	3 3 7 1/2 3 3	Inches. required per Rule.	3 3 7 1/2 3 3	Sheerstrakes, Breadth and thickness	9 1/2		9 1/2
,, average space between	3 6 3 6	Inches. required per Rule.	3 6 3 6	Butt Straps to outside plating, Breadth and thickness	7 1/2 6 0 x 9 1/2		30 x 1 1/16
,, if wood (No.) sided & moulded					9 1/2 8 1/2 10 9 1/2 8 1/2 10 9		9 1/2 8 1/2 10 9 1/2 8 1/2 10
Hold, or Lower Deck (No. 34) double Angle Iron Plate, or Bulb Iron	8 9 1/2 8	Inches. required per Rule.	8 9 1/2 8	Plankshears		Material.	
,, double or single Angle Iron on upper edge.....	3 3 7 1/2 3 3	Inches. required per Rule.	3 3 7 1/2 3 3	Gunwale Plate or Stringer on ends of Up Dk Beams	3 6 9 1/2 2 7 9 1/2 2 7		9 1/2
,, average space between	3 6 3 6	Inches. required per Rule.	3 6 3 6	Angle Iron on ditto	4 1/2 4 1/2 6 3 6 1/2 5 1/2 4 1/2		9 1/2
,, if wood (No.) sided & moulded				Diagonal Tie Plates on Beams	1 2 7 1/2 1 2 7 1/2		9 1/2
Paddle, wood, sided and moulded, or if Iron, size of Plate				Waterway	Peak 10 1/2 3		9 1/2
Engine				Deck	Yellow pine 3		9 1/2
Keelson, single plate, box, or intercostal	18 x 18		16 x 10 1/2	Ceiling in Hold	Red pine 2 1/2		9 1/2
,, Size of Plates	8		7 1/2 16 x 10 1/2	Ceiling betwixt Decks	2 1/2		9 1/2
,, Size of Angle Irons	3 3 7 1/2 3 3		7 1/2	Beam Clamps or Spircketting	1 1/2 8 1/2		9 1/2
Ditto Bilge (No. 55) see sketch herewith (For spar deck scantlings see other side)				Shelf			
Transoms, material iron or, if none, in what manner compensated for.				Stringer Plates on ends of Hold or Lower Dk Beams	3 8 7 1/2 2 8 7 1/2 2 7 7 1/2		9 1/2
Knight-heads, and Hawse Timbers	Iron			Ceiling between Decks	Middle deck 12		9 1/2
The Frames or Ribs extend in one length from Keel to Gunwale riveted through plates with (3/4 in.) rivets, about (6") apart.				Stringer or Tie Plates outside Hatchways	Hold beams 4 x 3 1/2 5 1/2 4 1/2		9 1/2
The reverse angle irons on the floors extend in one length across the middle line from on every front to height of Middle deck beam thereon on the frames, and from keel to Spar deck beam stringer on alternate frames for a length amounting to 170 ft. (See sketch herewith) how are the various lengths of plates, or angle irons connected? (With butt straps double riveted)				Deck Beam Clamps or Spircketting			
Keelson, how are the various lengths of plates, or angle irons connected?				Shelf			
Plates, Garboard, double or single riveted to keel & at upper edge, with rivets (3/4 to 1 1/2 ins.) diameter averaging (1 1/2 ins.) from centre to centre of rivet.				Stringers in Hold	Double angle iron 6 x 3 1/2 5 1/2 4 1/2 8 1/2		9 1/2
,, Edges from Garboards to upper part of bilge, worked carvel with a lining piece (1/2 in.) thick, or clencher, double or single riveted; rivets (1/2 in.) diameter, averaging (3/4 ins.) from centre to centre of rivets.				Deck, Lower middle	Hold plate between 8 x 3 1/2		9 1/2
,, Butts from Keel to turn of bilge, worked carvel with a lining piece (1/2 to 1 1/2 ins.) thick, double or single riveted; rivets (1/2 in.) diameter, averaging (3/4 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the stake below?				Deck, Upper, how fastened to Beams With screw bolts from above			
,, Edges from bilge to sheerstrake, worked carvel with a lining piece (1/2 to 1 1/2 ins.) thick, or clencher, double or single riveted; rivets (3/4 in.) diameter, averaging (3/4 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the stake below?				Bulkheads, N°. 4 over Thickness of 6 1/2			
,, Edge of Sheerstrake, double or single riveted? Double riveted				,, how secured to the sides of the ship Between double plates			
,, Butts from bilge to plankshears, worked carvel with a lining piece (1/2 to 1 1/2 ins.) thick, double or single riveted; rivets (3/4 in.) diameter, averaging (3/4 ins.) from centre to centre of rivets. Breadth of laps in double rivetting (1 1/2 to 2 1/2 ins.) Breadth of laps in single rivetting (None)				,, size of vertical angle iron and their distance apart 3 X 3 1/2 - 3 1/2			
Butt Straps of Keelsons, Stringer and Tie Plates, double or single riveted? Double riveted							
Plankshears, how secured to the plating of the sides Explain by sketch { See sketch herewith if necessary.							
Waterway, plankshears and to the Beams							
Deck Beams, how secured to the side? Turned down and riveted to frames							
Hold or Lower Deck	do		do				
Paddle gear	8"		8"				
No. of breasthooks crutches from how are pointers compensated? Ends of struts							
What description of iron is used for the angle iron and plate iron in the vessel? Bolehov & Loughborough							

© 2019

Lloyd's Register Foundation

IRON 437-0238

Workmanship. Are the lands or laps of the carvel work 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* *One and a half times the diameter*
 Do the edges of the carvel work and of the butts fay 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 with single pieces*
 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? *Yes*
 Are there any rivets which either break into or have been put through the seams or butts of the plating? *A very few in the butts*

Her Masts, Yards, &c., are in _____ condition, and sufficient in size and length. **3567** *ton*.

She has SAILS.

N°.

Fore Sails,	Chain
Fore Top Sails,	Hempen Stream Cable
Fore Topmast Stay Sails,	Hawser
Main Sails,	Towlines
Main Top Sails,	Warp
and	All of _____ quality.

CABLES, &c.

Fathoms.

Inches.

ANCHORS, and their weights.

N°. Weight.

Bower,	
Stream,	
Kedge,	

Her Standing and Running Rigging _____ sufficient in size and _____ in quality.

She has _____ Long Boat and _____

The present state of the Windlass is Capstan _____ and Rudder _____ Pumps _____

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 *Built under special survey from Oct 21st*
 2nd. On the plating during the progress of rivetting *Oct 21st*
 3rd. When the beams were in and fastened, and before the decks were laid *Nov 3rd to the present date*
 4th. When the ship was complete, and before the plating was finally coated *date*
 5th. After the ship was launched _____

The reversed angle iron in this ship were originally extended to the Hold beam and Middle deck stronger angle iron alternately; they have now been continued to the last named height and Spar deck stronger alternately, for a length of 170 feet amidships, in accordance with the Secretary's letter of the 9th February 1864.

The side bulkheads, composed of double angle iron, double riveted to the reversed angle iron on the frames, extend from forward to the aft side of Engine room, where they are connected with the engine bearers; they have now been continued aft, and being connected with the engine room bulkhead by double angle iron $3\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{2}$ in. and well braced, and the engine room bearer being well secured to the bulkhead the connection is made continuous throughout.

The Spar deck topside is $\frac{1}{16}$ thick, the sheer strake being 4 feet broad, and doubled $\frac{3}{4}$, the length of ship amidships, with plates $\frac{1}{16}$ thick and 2 feet broad. The beams are of 1 Gall iron $6\frac{1}{2} \times \frac{1}{16}$ with double riveted angle iron on upper edge $2\frac{1}{2} \times 2\frac{1}{2}$. The gunwale stronger plate is $2\frac{1}{2} \times \frac{1}{16}$ with angle iron $3\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{2}$. See plates on each side of hatchways fore part $10 \times \frac{1}{16}$, and six pairs of diagonal plates of the same size. There are also five pairs of diagonal tie plates to Middle deck $12 \times \frac{1}{16}$.

The side bulkheads are not intersected as required by the Rules, but in all other respects she is a well built ship, the workmanship being done throughout being satisfactory. I respectfully leave her claims to be classed to the favourable consideration of the Committee.

In what manner are the surfaces preserved from oxidation?

Painted with bottom paint to turn of bilge and from hence upwards with three coats of paint. The outside with three coats of paint and one coat of varnish at bottom is composition.

I am of opinion this Vessel should be classed _____

P. J. Marshall
Paid 6/5/64

The amount of the Fee £ 5 : - : - *is received by me*

Order No 1488 Special £ 68 : 16 : - *Paid 6/5/64*

Certificate (if required) £ : : :

May 11/64

Committee's Minute 3^d May 1864

Character assigned A

We are of opinion the Hull of this
 Iron Stern Steamer, under all the
 circumstances stated in Report 19
 entitled to the Committee favorable
 consideration to Class A as recommended
 Office 29/8/64



Lloyd's Register
 Foundation