

IRON SHIPS.

No. 3804 Survey held at London Date 23rd Feb^r 27th 28th 1864
 on the Iron Screw Schooner Iona Master Hayland
 Tonnage Gross 283.48 Engine Room 76.57 Register 220.40 Built at London
 When Built 1863 Launched 28th Nov^r 1863. By whom built Mill Wall Iron Shipbuild^r Comp^y
 Owners Sahlgreen & Harriott Port belonging to London Destined Voyage Subeck
 Surveyed Afloat or in Dry Dock Majors Slip See the other side for the Stores.

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.
.....	146	5	22	1	12	4	60
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft	21		Inches in Ships.	21		Inches required per Rule.				
Floors, Size of Angle Iron, and No. 1 at bottom of Floor Plate	3	2 1/2	7/16	3	2 1/2	6/16				
„ depth and thickness of Floor Plate at mid line	13	6 1/2	6/16	13	6 1/2	6/16				
„ depth and thickness of Floor Plate at Bilge Keelson	-	-	6/16	-	6/16	-				
„ Size of Reversed Angle Iron, and No. 1 at top of Floor Plate	2 1/4	2 1/4	5/16	2 1/4	2 1/4	5/16				
Frames, Size of Angle Iron, single or double	3	2 1/2	7/16	3	2 1/2	6/16				
„ „ Reversed Iron, 1 to every frame to above the bilge or every frame	2 1/2	2 1/2	5/16	2 1/2	2 1/2	5/16				
Beams, Deck (N ^o . 41) double Angle Iron, Plate, or Bulb Iron	5 x	3 1/2	6/16	5	x	5/16				
„ „ double or single Angle Iron, on upper edge	3 1/2	6	✓	3 1/2	6	✓				
„ „ average space between	5	3 1/2	6/16	5	3 1/2	5/16				
„ „ if wood (N ^o .) sided & moulded	14 ft									
„ Hold, or Lower Deck (N ^o . 15) } double Angle Iron, Plate, or Bulb Iron	8 1/2 x	1/2 ins	8 1/2	-	8/16					
„ „ double or single Angle Iron on upper edge	3	3	7/16	2 1/4	2 1/4	5/16				
„ „ average space between										
„ „ if wood (N ^o .) sided & moulded										
„ Paddle, wood, sided and moulded, or if Iron, size of Plate										
„ Engine „ „ „ „										
Keelson, single plate, box, or intercostal										
„ Size of Plates										
„ Size of Angle Irons										
Ditto Bilge (No. 1) at each bilge										

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

Knight heads, and Hawse Timbers None No Bow-speak

The Frames or Ribs extend in one length from Keel to Gunwale rivetted through plates with (3/4 in.) rivets, about (6 ins) apart.

The reverse angle irons on the floors extend in one length across the middle line from above Bilge to above Bilge

„ „ „ on the frames „ „ „ from above Bilge to above Bilge

Keelson, how are the various lengths of plates or angle irons connected? Strapped over every butt

Plates, Garboard, double or single rivetted to keel & at upper edge, with rivets (17/16 ins.) diameter averaging (4 1/4 in.) from centre to centre of rivet.

„ Edges from Garboards to upper part of bilge, worked carvel with a lining piece (1 in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/4 ins.) from centre to centre of rivets.

„ Butts from Keel to turn of bilge, worked carvel with a lining piece (1/2) 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? no

„ Edges from bilge to sheerstrake, worked carvel with a lining piece (1) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? no

„ Edge of Sheerstrake, double or single rivetted? at upper edge also lower edge

„ Butts from bilge to planksheers, worked carvel with a lining piece (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) Breadth of laps in single rivetting (2 1/2)

Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted?

Planksheer, how secured to the plating of the sides

Explain by sketch

Waterway „ „ planksheer and to the Beams

if necessary.

bolted to Stringer

Deck Beams, how secured to the side? with welded knees

Hold or Lower Deck „

Do Do - - -

Paddle „ „

No. of breasthooks 3 crutches 3 how are pointers compensated? With plate & angle iron

What description of iron is used for the angle iron and plate iron in the vessel? part from

Angle iron and Beams from the "Mill wall Comp^y" } bulk
Plates from Corbyu Hall iron works.

Builder's Signature

James Hare

IRON437A-0239

3809

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? close

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

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

Are there any rivets which either break into or have been put through the seams or butts of the plating? none seen

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.

Fore Sails,

Fore Top Sails,

Fore Topmast Stay Sails,

Main Sails,

Main Top Sails,

and well found

Ady^l test
proved to 20 3/4
 Chain 180
 Hempen Stream Cable
 Hawser 90
 Towlines 90
 Warp 90
 All of good quality.

Fathoms.

Inches.

See the Certificates. x

Bower,

Stream,

Kedge,

N^o.

Weight.

2.0.12

2.0.8

8.3.15

2.0.13

1.1.8

with
Stock
 11.4.0
 11.3.0
 11.0.0

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

She has a Long Boat and Safety & Jolly boat.

The present state of the Windlass is efficient Capstan new and Rudder efficient Pumps efficient

Samuel Vesins

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 At various times while building under special survey from Aug^r 22^d/63 to Sept^r 28th/64

2nd. On the plating during the progress of rivetting building under special survey from Aug^r 22^d/63 to Sept^r 28th/64

3rd. When the beams were in and fastened, and before the decks were laid Aug^r 22^d/63 to Sept^r 28th/64

4th. When the ship was complete, and before the plating was finally coated Sept^r 1864.

5th. After the ship was launched Sept^r 1864.

The upper edge of Sheerstrake is doubled with an iron plate 9" x 1/2" extending for more than three fourths the length of the vessel

* Chains and Anchors have all been tested, and proved at our own Proving House. The above being a copy from the Certificates and in accordance with the Rules. -

In what manner are the surfaces preserved from oxidation? Red lead & Peacock's Anti Corrosive outside and inside with red lead. -

We are of opinion this Vessel should be classed G. A. 1.

The amount of the Fee£ 3: : is received by us,

Special£ 14: 3: -

Certificate (X required)£ : : -

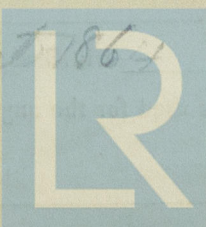
Samuel Vesins
John Maxwell

Committee's Minute 25th October 1864

Character assigned A 1 for 9 years

(A & C P)

I concur in the above recommendations
24 Oct 1864
MA?



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