

IRON SHIPS.

2139

No. 4163 Survey held at Greenock Date 7th May 1860
 on the Screw Steam "Syrian" Master Bates
 Tonnage Gross 1492 Engine Room _____ Register _____ Built at Belfast
 When Built _____ By whom built Harland Owners J. Bibby Sons & Co.
 Port belonging to Liverpool Destined Voyage Liverpool to Mediterranean
 Surveyed Afloat or in Dry Dock Afloat Classed "12" Δ

| 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. |
|--------------------------------------------------------------------------------------------------------------|-------|---------|-----------------|-------|---------|------------------------------------------------------|-------|---------|------------------|-----------|
| Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft | | | | | | | | | | |
| Floors, Size of Angle Iron, and No. at bottom of Floor Plate | | | | | | | | | | |
| „ depth and thickness of Floor Plate at mid line | | | | | | | | | | |
| „ depth and thickness of Floor Plate at Bilge Keelson | | | | | | | | | | |
| „ Size of Reversed Angle Iron, and No. at top of Floor Plate | | | | | | | | | | |
| Frames, Size of Angle Iron, single or double „ „ Reversed Iron, if to every frame or every frame | | | | | | | | | | |
| Beams, Deck (N ^o .) double Angle Iron or Bulb Iron with double Angle Iron on top | | | | | | | | | | |
| „ „ depth & thickness of plate amidships | | | | | | | | | | |
| „ „ double or single Angle Iron, on lower edge | | | | | | | | | | |
| „ „ average space between | | | | | | | | | | |
| „ „ if wood (N ^o .) sided & moulded | | | | | | | | | | |
| „ Hold, or Lower Deck (N ^o .) double Angle Iron or Bulb Iron with double Angle Iron on top | | | | | | | | | | |
| „ „ depth & thickness of plate amidships | | | | | | | | | | |
| „ „ double or single Angle Iron, on lower edge | | | | | | | | | | |
| „ „ average space between | | | | | | | | | | |
| „ „ if wood (N ^o .) sided & moulded | | | | | | | | | | |
| „ Paddle, wood, sided and moulded or if Iron, size of Plate | | | | | | | | | | |
| „ Engine „ „ „ „ | | | | | | | | | | |
| Keelson, wood, sided & moulded, iron, size of plate, if Box, give sketch & dimensions | | | | | | | | | | |
| „ Side or Bilge | | | | | | | | | | |
| „ Number | | | | | | | | | | |

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

Knight-heads „ „ Bulkheads, N^o. _____ Thickness of _____
 Hawse Timbers „ „ are they free from defects? „ „ how secured to the sides of the ship _____
 „ „ size of vertical angle iron and their distance apart _____

The Frames or Ribs extend in one length from _____ to _____ rivetted through plates with (_____ in.) rivets, about (_____) apart.

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

„ „ „ on the frames „ „ „ from _____ to _____

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

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

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

„ Butts from Keel to turn of bilge, worked carvel with a lining piece (_____) thick, double or single rivetted; rivets (_____ in.) diameter, averaging (_____ ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? _____

„ Edges from bilge to planksheer, worked carvel with a lining piece (_____) thick, double or single rivetted; rivets (_____ in.) diameter, averaging (_____ in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? _____

„ Butts from bilge to planksheers, worked carvel with a lining piece (_____) thick, or clencher, double or single rivetted; rivets (_____ in.) diameter averaging (_____ ins.) from centre to centre of rivets. Breadth of laps in double rivetting (_____) Breadth of laps in single rivetting (_____)

Planksheer, how secured to the plating of the sides { Explain by sketch, }

Waterway „ „ planksheer and to the Beams { if necessary. }

Side trussing _____ breadth and thickness of plates _____ how secured? _____

Deck trussing „ „ „ „ ? _____

Deck Beams, how secured to the side? _____

Hold or Lower Deck „ _____

Paddle „ „ _____

No. of breasthooks _____ crutches _____ how are pointers compensated? _____

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



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Builder's Signature

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IRON 434 - 0234

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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? _____

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

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

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

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

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. | | N ^o . | Weight. |
|------------------|--------------------------|-----------------------------|----------|------------------|--------------------------------|------------------|--------------------|
| | Fore Sails, | Chain | 300 | 1 $\frac{3}{4}$ | Bowyer <i>Grotman's patent</i> | 1 | <i>into 94 lbs</i> |
| | Fore Top Sails, | Hempen Stream Cable | 60 | 10 $\frac{1}{2}$ | <i>Ordinary</i> | 1 | 30.3.17 |
| <i>one full</i> | Fore Topmast Stay Sails, | Hawser <i>Do</i> | 80 | 9 $\frac{1}{2}$ | | 1 | 30.3.20 |
| <i>two</i> | Main Sails, | Towlines | 270 | 6 | Stream, | 1 | 8.2.13 |
| <i>of</i> | Main Top Sails, | Warp | 120 | 4 | Kedge, | 2 | 6.1.0 |
| and | | All of <u>Good</u> quality. | | | | | 2.1.27 |

rigging is done
Her Standing and Running Rigging Hemp sufficient in size and Good in quality.

She has six **Long Boat** and

The present state of the Windlass is Good two Capstans three steam and Rudder Good Pumps Six had Good

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 _____

The ground tackle of this vessel has been completed as above specified, and Testing certificates produced showing that the Chain Cables have been tested to the Admiralty strain of 55 Tons. She is in good condition, and eligible in my opinion to be classed 12A1. Engineers' certificate herewith.

In what manner are the surfaces preserved from oxidation? _____

I am of opinion this Vessel should be classed 12A1

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

Special£ : :

Certificate (if required)£ : :

Committee's Minute 15th May 1860

Character assigned 12A1



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