

(148) 3619

# IRON SHIPS.

Rec 11/4/48

No. 3615 Survey held at Shields Date 14<sup>th</sup> April 1848  
 on the Barque "Royal Sovereign" <sup>late A Hammer</sup> Master Jawson

Tonnage—Gross 291 Engine Room \_\_\_\_\_ Register 446 Built at Glasgow

When built 1834 By whom built \_\_\_\_\_ Owners J. Ray

Port belonging to Sunderland Destined Voyage Antwerp

If Surveyed Afloat or in Dry Dock In Dry Dock Clased — Built from Shipwrights

| Length aloft .....                                                      | Feet. Inches.        | Extreme Breadth.... | Feet. Inches. | Depth from Beam to top of Floor..               | Feet. Inches.        | Power of Engines.... | Horse No. |
|-------------------------------------------------------------------------|----------------------|---------------------|---------------|-------------------------------------------------|----------------------|----------------------|-----------|
| <u>64 1/2</u>                                                           |                      | <u>14 1/2</u>       |               | <u>4 1/2</u>                                    |                      |                      |           |
| Distance between Floors amidships.....                                  |                      |                     |               | Stem, if bar iron, moulding and thickness ....  |                      |                      |           |
| "    "    "    forward and aft ....                                     |                      |                     |               | "    if plate iron, breadth and thickness ....  |                      |                      |           |
| "    "    Ribs amidships .....                                          |                      |                     |               | Stern-post, if bar iron, moulding and thickness |                      |                      |           |
| "    "    "    forward and aft .....                                    |                      |                     |               | "    "    if plate iron, breadth and thickness  |                      |                      |           |
| Floors, Size of Angle Iron, and No. at }<br>bottom of Floor Plate ..... | Inches. Inches. Sths |                     |               | Keel, if bar iron, depth and thickness.....     |                      |                      |           |
| "    depth & thickness of Plate at mid line..                           |                      |                     |               | "    if plate iron, breadth and thickness ....  |                      |                      |           |
| "    "    "    "    at turn of bilge                                    |                      |                     |               | Garboard Plates, thickness ..                   | Description of Iron. |                      |           |
| "    Size of Reversed Angle Iron, and }<br>No. at top of Floor Plate..  |                      |                     |               | "    to bilge ..                                |                      |                      |           |
| Ribs, Size of Angle Iron, single or double... }                         |                      |                     |               | Bilge ..                                        |                      |                      |           |
| "    "    Reversed Iron, if to every frame }                            |                      |                     |               | "    to Wales ..                                |                      |                      |           |
| or every frame .....                                                    |                      |                     |               | Wales ..                                        |                      |                      |           |
| Beams, Deck (N <sup>o</sup> . ) double or single }                      |                      |                     |               | Topsides ..                                     |                      |                      |           |
| Angle Iron .....                                                        |                      |                     |               | Sheer-strakes ..                                |                      |                      |           |
| "    "    depth & thickness of Plate amidships                          |                      |                     |               | Planksheers .....                               | Material.            |                      |           |
| "    "    double or single Angle Iron, }                                |                      |                     |               | Gunwale Plate or Stringer..                     |                      |                      |           |
| on lower edge .....                                                     |                      |                     |               | Waterway .....                                  |                      |                      |           |
| "    "    average space between .....                                   |                      |                     |               | Deck.....                                       |                      |                      |           |
| "    "    if wood (N <sup>o</sup> . ) sided & moulded                   |                      |                     |               | Ceiling in flat .....                           |                      |                      |           |
| "    Hold, (N <sup>o</sup> . ) double or single }                       |                      |                     |               | Bilge Planks inside .....                       |                      |                      |           |
| Angle Iron .....                                                        |                      |                     |               | Ceiling from Bilge to Clamps                    |                      |                      |           |
| "    "    depth & thickness of Plate amidships                          |                      |                     |               | Hold Beam Clamps.....                           |                      |                      |           |
| "    "    double or single Angle Iron, }                                |                      |                     |               | "    "    Shelf.....                            |                      |                      |           |
| on lower edge .....                                                     |                      |                     |               | "    "    Stringers .....                       |                      |                      |           |
| "    "    average space between .....                                   |                      |                     |               | Ceiling between Decks ....                      |                      |                      |           |
| "    "    if wood (N <sup>o</sup> . ) sided & moulded                   |                      |                     |               | Stringers ..                                    |                      |                      |           |
| "    Paddle, wood, sided and moulded }                                  |                      |                     |               | Deck Beam Clamps .....                          |                      |                      |           |
| or if Iron, size of Plate.....                                          |                      |                     |               | "    "    Shelf .....                           |                      |                      |           |
| "    Engine ..                                                          |                      |                     |               | Stringers in Hold.....                          |                      |                      |           |
| Keelson, wood, sided & moulded, iron, size of }                         |                      |                     |               | Deck, Lower .....                               |                      |                      |           |
| plate, if Box, give sketch & dimensions }                               |                      |                     |               |                                                 |                      |                      |           |
| "    Side or Bilge .....                                                |                      |                     |               |                                                 |                      |                      |           |
| "    Number....                                                         |                      |                     |               |                                                 |                      |                      |           |

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

Knight-heads .. }  
 Hawse Timbers .. } are they free from defects ?

The 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 ribs .. "    "    "    from \_\_\_\_\_ to \_\_\_\_\_

Keelson, if wood, length of scarp \_\_\_\_\_ if iron, how are the various lengths connected ?

Plates, Garboard, double or single rivetted to keel, with rivets ( \_\_\_\_\_ ins ) diameter, averaging ( \_\_\_\_\_ in.) from centre to centre of rivet.

    "    edges from Garboards to turn 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 Garboards 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 wales, worked carvel with a lining piece ( \_\_\_\_\_ ) thick, or clencher, double or single rivetted; rivets ( \_\_\_\_\_ in.) diameter, averaging ( \_\_\_\_\_ ins.) from centre to centre of rivets.

    "    butts from bilge to wales, 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 ?

    "    edges of wales and 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.

Planksheer, how secured to the plating of the sides { Explain by a sketch, }  
 Waterway .. "    "    planksheer and to the beams { if necessary. }

Side trussing      breadth and thickness of plates      how secured

Deck trussing      "    "    "    "    "    "

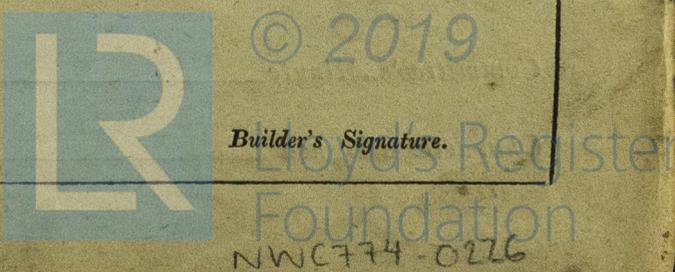
Deck Beams, how secured to the side

Hold .. "    "

Paddle .. "    "

No. of breasthooks      crutches      how are pointers compensated ?

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



**Workmanship.** Are the lands or laps of the clench work in all cases sufficiently wide to take the rivets and support the strain on them?

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 all solid with sliver pieces, or are they in short lengths?

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

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

Was the plating caulked internally in the wake of the frames or ribs?

Her Masts, Yards, &c. are in good condition, and sufficient in size and length.

| She has SAILS.        |                          | CABLES, &c. |                             | ANCHORS, and their weights. |                  |
|-----------------------|--------------------------|-------------|-----------------------------|-----------------------------|------------------|
| N <sup>o</sup> .      |                          | Fathoms.    |                             | Inches.                     | N <sup>o</sup> . |
| 2                     | Fore Sails,              |             | Chain .....                 | 3                           | Bower,           |
| 2                     | Fore Top Sails,          |             | Hempen Stream Cable .....   | 1                           | Stream,          |
| 2                     | Fore Topmast Stay Sails, |             | Hawser .....                | 1                           | Kedge,           |
| 1                     | Main Sails,              |             | Towlines .....              | <i>sufficient in weight</i> |                  |
| 2                     | Main Top Sails,          |             | Warp .....                  |                             |                  |
| and <i>well found</i> |                          |             | All of <i>good</i> quality. |                             |                  |

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

She has A Long Boat and Quarter boat

The present state of the Windlass is good Capstan tree and Rudder good Pumps good

**GENERAL REMARKS.**

Statement and date of repairs; extent of corrosion (if any) both internally and externally; and condition of rivets.

*This Vessel having been a Voyage to India as a Steamer the plates under the Parallel Beams were split assunder in a Vertical direction upwards of four feet in length in consequence of not being built of sufficient strength in the upper part, to sustain from straining in a heavy sea way - To remedy this defect we had Two Strakes of 7/16 Iron plates on each side brought on outside the outer Sheerstrake and Topsides and Riveted through all Angle Iron Ribbs & and a New shelf of 1/2 inch Iron plate secured with Angle Iron and through the New plates, there were also other repairs of wood viz New waterways on main deck pent New lower shelf of wood and pent of the Pelson taken up and renewed, (Her Machinery is taken out and she is now a Sailing Vessel) - also 4 extra Hold Beams secured*

*We had some Holes but in the bottom plates but did not find that Oxidation had taken place to the extent of what might have been expected the Plates appeared to have been when New 3/8 they are now 5/16*

In what manner are the surfaces preserved from oxidation? *Stuffed with Red lead on the inner surface and Rosin mixture without.*

I am of opinion this Vessel should be Classed F. 1.

The Amount of the Fee.....£ 2 : - : - is received by Mr. Poppell

Special .....£ 9 : - : -

Certificate (if required) .....£ - : 10 : -

with be called for at The Office 18th April 1848  
Committee's Minute

Character assigned F. 1.

