

IRON SHIP.

No. *3772* Survey held at *Hartlepool* Date, First Survey *3 May 1876* Last Survey *24 Feb 1877*
11/31/77
 in the *Sea* *"Wiltshire"* Master *Edw. Withy*

NAME under Tonnage Deck *407.09* **ONE, OR TWO DECKED, THREE DECKED VESSEL.**
 to of Third, Spar, or Awning Deck. *80.29* **SPAR, OR AWNING-DECKED VESSEL.**
 to of Poop, or Raised Qr. Dk. *40.49* **HALF BREADTH** (moulded) *12.5* Feet.
 to of Houses on Deck *5.25* **DEPTH** from upper part of Keel to top of Upper Deck Beam *15.1 1/2*
 to of Forecastle *533.92* **GIRTH** of Half Midship Frame (as per Rule) *24.4 1/2*
 Gross Tonnage *38.23* **1st NUMBER** *51.11*
 Less Crew Space *495.69* **1st NUMBER, if a THREE-DECKED VESSEL** [deduct 7 feet]
 Less Engine Room *170.05* **LENGTH** *164.2*
 Register Tonnage *324.84* **2nd NUMBER** *8521*
 as cut on Beam *324.84* **PROPORTIONS**—Breadths to Length *1/11*
 Depths to Length—Upper Deck to Keel *1/11*
 Main Deck ditto *1/11*

Built at *Hartlepool*
When built *1876* **Launched** *10 Feb 1876*
By whom built *E. Withy & Co.*
Owners *Steel Young & Co.*
Port belonging to *London*
Destined Voyage *London*
If Surveyed while Building, Afloat, or in Dry Dock.

LENGTH on deck as per Rule *164.2* **BREADTH**—Moulded *24.10* **DEPTH** top of Floors to Upper Deck Beams *13.11* **Power of Engines** *70* **Horse.** *70* **Nº. of Decks with flat laid** *one*
 per Rule *164.2* **Do. do. Main Deck Beams** *13.11* **Nº. of Tiers of Beams**

Dimensions of Ship per Register, length, *161*—breadth, *25*—depth, *13.7*

KEEL, depth and thickness *7 1/4 x 1 1/2*
STEM, moulding and thickness *7 x 6*
STERN-POST for Rudder do. do. *7 x 3 1/2*
 for Propeller *7 x 3 1/2*
 Distance of Frames from moulding edge to moulding edge, all fore and aft *21*
FRAMES, Angle Iron, for 3/4 length amidships *3 x 3 x 6/16*
 Do. for 1/2 at each end *3 x 3 x 5/16*
REVERSED FRAMES, Angle Iron *2 1/2 x 2 1/2 x 5/16*
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships *14 1/2 x 7/16 x 6/16*
 thickness at the ends of vessel *5/16*
 depth at 3/4 the half-bdth. as per Rule *12*
 height extended at the Bilges *20*
BEAMS, Upper, Spar, or Awning Deck, single or d'ble Ang. Iron, Plate or Tee Bulb Iron *5 x 3 x 6/16*
 single or double Angle Iron on Upper edge *21*
 Average space *21*
BEAMS, Main, or Middle Deck, single or d'ble Ang. Iron, Plate or Tee Bulb Iron *5 x 3 x 6/16*
 single or double Angle Iron, on Upper Edge *21*
 Average space *21*
BEAMS, Lower Deck, Hold, or Orlop, single or d'ble Ang. Iron, Plate or Tee Bulb Iron *7 1/2 x 7/16 x 7/16*
 single or double Angle Iron on Upper Edge *3 x 3 x 6/16*
 Average space *10 ft. 6 in.*
KEELSONS Centre line, single or double plate, box, or Intercoastal, Plates *11 1/2 x 9/16*
 " Rider Plate *7 3/4 x 9/16*
 " Bulb Plate to Intercoastal Keelson *3 1/2 x 3 x 6/16*
 " Angle Irons *3 1/2 x 3 x 6/16*
 " Double Angle Iron Side Keelson *3 1/2 x 3 x 6/16*
 " Side Intercoastal Plate *3 1/2 x 3 x 6/16*
 " do. Angle Irons *3 1/2 x 3 x 6/16*
 " Attached to outside plating with angle iron *3 1/2 x 3 x 6/16*
SILGE Angle Irons *3 1/2 x 3 x 6/16*
 " do. Bulb Iron *3 1/2 x 3 x 6/16*
 " do. Intercoastal plates riveted to plating for length *3 1/2 x 3 x 6/16*
SILGE STRINGER Angle Irons *3 1/2 x 3 x 6/16*
 Intercoastal plates riveted to plating for length *3 1/2 x 3 x 6/16*
SIDE STRINGER Angle Irons *3 1/2 x 3 x 6/16*

Flat Keel Plates, breadth and thickness *30*
PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges of doubling at Bilge, or increased thickness, and length applied *7 1/6 x 6/16*
 fm up. part of Bilge to lr. edge of Sh'rstrake *7 1/6 x 6/16*
 Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied from Mn. to Up. or Spar Dk. Sh'rstrake. *33 x 9/16*
 Up. or Spar Dk Sh'rstrake, brdth & thickness *33 x 9/16*
 Butt Straps to outside plating, breadth & thickness *8 1/4 x 3/4 x 7/16*
 Lengths of Plating *8 ft. 9 in.*
 Shifts of Plating, and Stringers *4 1/2*
 Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness *2 3/4 x 7/16*
 Angle Iron on ditto *3 1/2 x 3 x 6/16*
 Tie Plates fore and aft, outside Hatchways *3 1/2 x 3 x 6/16*
 Diagonal Tie Plates on Beams No. of Pairs, Planksheer material and scantling *5/8*
 Waterways do. do. *5/16*
 Flat of Upper Deck do. do. *5/16*
 How fastened to Beams *5/8 rivets*
 Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness *5/8 rivets*
 Is the Stringer Plate attached to the outside plating?
 Angle Irons on ditto, No. *21*
 Tie Plates, outside Hatchways *21*
 Diagonal Tie Plates on Beams, No. of pairs *21*
 Waterways materials and scantlings *21*
 Flat of Middle Deck do. do. *21*
 How fastened to Beams *21*
 Stringer Plates on ends of Lower Deck, Hold or Orlop Beams *21*
 Is the Stringer Plate attached to the outside plating?
 Angle Irons on ditto, No. *3 x 3 x 6/16*
 Stringer or Tie Plates, outside Hatchways *3 x 3 x 6/16*
 Flat of Lower Deck *2 1/2*
 Ceiling betwixt Decks, thickness and material *2 1/2*
 in hold do. do. *2 1/2*
 Main piece of Rudder, diameter at head *4 1/4*
 do. at heel *2 1/2*
 Can the Rudder be unshipped afloat? *Yes*
 Bulkheads No. *4* Thickness of *4/16*
 Height up *main deck* after me to keel feet *11 ft. 6 in.*
 How secured to sides of ship *to double frames*
 Size of Vertical Angle Irons *2 1/2 x 2 1/2 x 5/16* and distance apart *30* ins.
 Are the outside Plates doubled two spaces of Frames in length? *Yes*

Transoms, material. Knight-heads. Hawse Timbers. *Plates*
 Windlass *Patent* Pall Bitt *Patent*

The **FRAMES** extend in one length from *Keel* to *gunwale* Riveted through plates with *3/4* in. Rivets, about *6* in. apart.
 The **REVERSED ANGLE IRONS** on floors and frames extend *across* middle line to *above bilge stringer* and to *gunwale* alternately
KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? *Yes* And butts properly shifted? *Yes*

PLATING. Garboard, double riveted to Keel, with rivets *1* in. diameter, averaging *5* ins. from centre to centre.
 Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets *3/4* in. diameter, averaging *3* ins. from centre to centre.
 Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets *3/4 x 5/8* in. diameter averaging *3/4 x 2 3/4* ins. from centre to centre.
 Butts of *one* Strakes at Bilge for *half* length, *double* riveted with Butt Straps *1/16* thicker than the plates they connect.
 Edges from bilge to Main Sheerstrake, worked clencher, *double* or single riveted; with rivets *3/4* in. diameter, averaging *3* ins. from cr. to cr.
 Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets *3/4 x 5/8* in. diameter, averaging *3/4 x 2 3/4* ins. from cr. to cr.
 Edges of Main Sheerstrake, double or single riveted. **Upper Sheerstrake**, double or single riveted.
 Butts of Main Sheerstrake, *double* riveted for *whole* length amidships. Butts of Upper or Spar Sheerstrake, *treble* riveted *whole* length amidships.
 Butts of Main Stringer Plate, *double* riveted for *whole* length amidships. Butts of Upper or Spar Stringer Plate, *treble* riveted for *whole* length.
 Breadth of laps of plating in double riveting *4 1/2 x 5 3/4* Breadth of laps of plating in single riveting *2 3/4 x 2 1/4*

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? *Double & Treble*
 Waterway, how secured to Beams *(Explain by Sketch, if necessary.)*
 Beams of the various Decks, how secured to the sides? *By bolts & nuts and by double plates* No. of Breasthooks, *four* Crutches, *two*
 What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? *Good*
 Manufacturer's name or trade mark, *Steel Young & Co. Hartlepool*

The above is a correct description.
 Builder's Signature, *Edw. Withy & Co.* Surveyor's Signature, *S. P. Gladstone*
 Surveyor to Lloyd's Register of British and Foreign Shipping.

IRON 470-0362

Workmanship.

Are the butts of plating planed or otherwise fitted? *Planed*

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

Are the fillings between the ribs and plates solid single pieces? *Solid in one length*

Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *Yes*

Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? *Yes*

Do any rivets break into or through the seams or butts of the plating? *A few in butts.*

14919 *Ln*

Masts, Bowsprit, Yards, &c., are *10 Pine* in *good* condition, and sufficient in size and length. If of Iron or Steel give Scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, showing the number of Plates and Angle Irons, mode of riveting, quality of Materials, and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit *Main Mast 56 ft. Dia 15 fore mast 54 ft. Dia 15 1/2 in.*

NUMBER for EQUIPMENT

9373

State Machine where tested, Date, & name of Superintendent.

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Fathoms.

Inches.

Test per Certificate.

Length & Size req'd pr Rule.

Test req'd per Rule.

ANCHORS.

No.

Weight.

Ex. Stock.

Test per Certificate.

W'ght req'd per Rule.

Test req'd per Rule.

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