

# IRON SHIP.

Rev 30/11/1874

No. 11 Survey held at Whitby Date, First Survey 20th May Last Survey 28th Nov 1874

On the Sea King Yard Number 39 Master J. Lister

TONNAGE under Deck 807.44 ONE, OR TWO DECKED, THREE DECKED VESSEL. Built at Whitby

Ditto of Third Spar, or Awning Deck. 5 SPAR, OR AWNING-DECKED VESSEL. When built 1874 Launched 24th October

Ditto of Pump, or Raised Qr. Dk. 583.20 HALF BREADTH (moulded) 14-11 By whom built Turnbull & Co

Ditto of Houses on Deck 84.81 DEPTH from upper part of Keel to top of Upper Deck Beams 16-0 Owners Richard Powell

Ditto of Forecastle 20.90 GIRTH of Half Midship Frame (as per Rule) 30-1 Port belonging to Swansea

Gross Tonnage 704.38 1st NUMBER 63.8 Destined Voyage Shield

Less Crew Space 49.56 1st NUMBER, if a THREE-DECKED VESSEL deduct 7 feet 223-1 If Surveyed while Building, Afloat, or in Dry Dock.

Less Engine Room 1521.40 LENGTH 142.01

Register Tonnage 633.42 2nd NUMBER 142.01 PROPORTIONS—Breadths to Length within 8

Feet. Inches. BREADTH—Moulded 29 11 Feet. Inches. DEPTH top of Floors to Upper Deck Beams 19 12 Power of Engines 99 Horse. 99 No. of Decks with flat laid One

Dimensions of Ship per Register, length 224-4 breadth, 30-1 depth, 16-9 No. of Tiers of Beams Two

KEEL, depth and thickness 8 x 2 3/8 Inches in Ship. Inches per Rule. 8 x 2 3/8 PLATES in Garboard Strakes, breadth and thickness 30 Inches. 16ths. 9/16 30 9/16

STEM, moulding and thickness 8 x 2 1/4 Inches in Ship. Inches per Rule. 8 x 2 1/4 PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges of doubling at Bilge, or increased thickness, and length applied half 40

STERN-POST for Rudder do. do. 8 x 4 1/2 Inches in Ship. Inches per Rule. 8 x 4 1/2 fm up. part of Bilge to lr. edge of Sh'rstrake Main Sheerstrake, breadth and thickness of doubling at Sh'rstrake, & length applied from Mn. to Upr. or Spar Dk. Sh'rstrake. Upr. or Spar Dk. Sh'rstrake, breadth & thickness 36 12/16 36 12/16

Distance of Frames from moulding edge to moulding edge, all fore and aft 23 (Class 90A1) Butt Straps to outside plating, breadth & thickness 9 3/4 x 7/16

FRAMES, Angle Iron, for 1/2 length amidships 4 Inches. 16ths. 4 3 1/16 4 3 1/16 Lengths of Plating 46

Do. for 1/4 at each end 4 Inches. 16ths. 4 3 1/16 4 3 1/16 Shifts of Plating, and Stringers 46

REVERSED FRAMES, Angle Iron 3 Inches. 16ths. 3 3 1/16 3 3 1/16 Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness 31 9/16 31 9/16

FLOORS, depth and thickness of Floor Plate at mid line for half length amidships 18 1/2 x 7/16 x 18 1/2 x 7/16 Upper Deck Beams, breadth and thickness 4 x 4 x 7/16

thickness at the ends of vessel 10 x 7/16 Angle Iron on ditto 4 x 4 x 7/16

depth at 1/4 the half-bdth. as per Rule 10 x 7/16 Tie Plates fore and aft, outside Hatchways Iron Deck

height extended at the Bilges 39 Diagonal Tie Plates on Beams No. of Pairs 2

BEAMS, Upper, Spar, or Awning Deck Single or double Angle Iron on Upper edge 2 1/2 x 2 1/2 x 5/16 x 2 1/2 x 5/16 Plank-sheer material and scantling Iron Deck

Average space 46 Waterways do. do. Iron 6/16

BEAMS, Main or Middle Deck Single or double Angle Iron, Plate or Tee Bulb Iron 2 1/2 x 2 1/2 x 5/16 x 2 1/2 x 5/16 Flat of Upper Deck do. do. Iron 6/16

Single, or double Angle Iron, on Upper Edge 2 1/2 x 2 1/2 x 5/16 x 2 1/2 x 5/16 How fastened to Beams 5/16

Average space 46 Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness 24 8/16 27 8/16

BEAMS, Lower Deck, Hold or Upper Single or double Angle Iron, Plate or Tee Bulb Iron 2 1/2 x 2 1/2 x 5/16 x 2 1/2 x 5/16 Is the Stringer Plate attached to the outside plating? Yes

Single, or double Angle Iron on Upper Edge 2 1/2 x 2 1/2 x 5/16 x 2 1/2 x 5/16 Angle Irons on ditto, No. 2

Average space 46 Tie Plates, outside Hatchways 2

KEELSONS Centre line, single or double plate, box, or intercostal, Plates 18 1/2 x 1 1/16 x 18 1/2 x 1 1/16 Diagonal Tie Plates on Beams, No. of pairs 2

Rider Plate 7 1/4 x 9/16 x 7 1/4 x 9/16 Waterways materials and scantlings Iron Deck

Bulb Plate to Intercostal Keelson 6 x 3 1/2 x 7/16 x 6 x 3 1/2 x 7/16 Flat of Middle Deck do. do. Iron Deck

Angle Irons 6 x 3 1/2 x 7/16 x 6 x 3 1/2 x 7/16 How fastened to Beams 5/16

Double Angle Iron Side Keelson 6 x 3 1/2 x 7/16 x 6 x 3 1/2 x 7/16 Stringer Plates on ends of Lower Deck, Hold or Orlop Decks 24 8/16 27 8/16

Side Intercostal Plate 6 x 3 1/2 x 7/16 x 6 x 3 1/2 x 7/16 Is the Stringer Plate attached to the outside plating? Yes

do. Angle Irons 6 x 3 1/2 x 7/16 x 6 x 3 1/2 x 7/16 Angle Irons on ditto, No. 2

Attached to outside plating with angle iron 6 x 3 1/2 x 7/16 x 6 x 3 1/2 x 7/16 Stringer or Tie Plates, outside Hatchways 2

BILGE Angle Irons 6 x 3 1/2 x 7/16 x 6 x 3 1/2 x 7/16 Flat of Lower Deck 2 1/2 x 7/16

do. Bulb Iron 6 x 3 1/2 x 7/16 x 6 x 3 1/2 x 7/16 Ceiling betwixt Decks, thickness and material 2 1/2 x 7/16

do. Intercostal plates riveted to plating for length 6 x 3 1/2 x 7/16 x 6 x 3 1/2 x 7/16 in hold do. do. 2 1/2 x 7/16

BILGE STRINGER Angle Irons 6 x 3 1/2 x 7/16 x 6 x 3 1/2 x 7/16 Main piece of Rudder, diameter at head 3

Intercostal plates riveted to plating for length 6 x 3 1/2 x 7/16 x 6 x 3 1/2 x 7/16 do. at heel 3

SIDE STRINGER Angle Irons 6 x 3 1/2 x 7/16 x 6 x 3 1/2 x 7/16 Can the Rudder be unshipped afloat? Yes

Transoms, material. Knight-heads. Hayse Timbers. Plates Bulkheads No. 4 Thickness of 6/16

Windlass Combs Patent Riveted through plates with 3/4 in. Rivets, about 6 in. apart. Height up main deck after me to cabin deck plate sec. How secured to sides of ship to double frames Size of Vertical Angle Irons 3 x 3 1/2 x 7/16 and distance apart 30 ins. Are the outside Plates doubled two spaces of Frames in length? Yes

The FRAMES extend in one length from Keel to gunwale

The REVERSED ANGLE IRONS on floors and frames extend across middle line to above hold beam 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 3/8 ins. from centre to centre.

Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 3/4 in. diameter averaging 3 1/4 ins. from centre to centre.

Butts of Two Strakes at Bilge for half length, treble 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 3/8 ins. from cr. to cr.

Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 3/4 in. diameter, averaging 3 3/8 ins. from cr. to cr.

Edges of Main Sheerstrake, double or single riveted. Upper Sheerstrake, double or single riveted.

Butts of Main Sheerstrake, treble riveted for half length amidships. Butts of Upper or Spar Sheerstrake, treble riveted length amidships.

Butts of Main Stringer Plate, treble riveted for half length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for length.

Breadth of laps of plating in double riveting 4 3/4 Breadth of laps of plating in single riveting 2 3/4

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.) No. of Breasthooks, Five Crutches, Two

Beams of the various Decks, how secured to the sides? End turned & pieces welded

What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Good

Manufacturer's name or trade mark, Stouton M. S. Co. Hopton etc.

The above is a correct description.

Builder's Signature, Thomas Turnbull Surveyor's Signature, J. Lister

(22,573).

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FOIRON459-0344

**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? They do  
 Are the fillings between the ribs and plates solid single pieces? Yes  
 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 13669 Jan

Masts, Bowsprit, Yards, &c., are of 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 66 1/2 x 18 Fore Mast 67 x 18 1/4

NUMBER for EQUIPMENT	Fathoms.	Inches.	Test per Certificate.	Lgh. & Size req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	N <sup>o</sup> .	Weight. Ex. Stock.	Test per Certificate.	Wght req'd per Rule.	Test req'd per Rule.
Fore Sails,	240	1 1/2	40-10-0-0	240 fms	40-10-0-0	Bowers ...	3	21-3-0	22-3-1-0	21-0-0	21-12-0-0
Fore Top Sails,						(State Machine where Tested, Date, and name of Superintendent.)		21-1-0	21-16-1-0	21-0-0	21-12-0-0
Fore Topmast Stay Sails								10-0-7	19-2-0-21	17-3-4	10-10-0-0
Main Sails,	60	1				Stream ...	1	9-0-2		9-0-0	
Main Top Sails,	80	1 1/2				Kedges ...	2	4-2-7		4-2-0	
and	80	1 1/2						2-1-2		2-1-0	

Standing and Running Rigging Wire & Hemp sufficient in size and Good in quality. She has Four Long Boats and Good  
 The Windlass is Good Capstan & Good and Rudder Good Pumps Two of 6 in Good metal.  
 Engine Room Skylights.—How constructed? 3 in Pine & glass to top of frame How secured in ordinary weather? With lugs  
 What arrangements for deadlights in bad weather? With lugs  
 Coal Bunker Openings.—How constructed? Iron beams How are lids secured? Bars Height above deck? 10 inches  
 Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? Ports & Scuppers

Cargo Hatchways.—How formed? 1/16 Plate  
 State size Main Hatch 23 x 10 ft beams 3 1/2 in Forehatch 11-5 x 9 ft beams 3 1/2 in Quarterhatch 10 x 10 ft beams 20 inches  
 If of extraordinary size, state how framed and secured?  
 What arrangement for shifting beams? 1/16 Plate in centre the whole depth of beams  
 Hatches, if strong and efficient? Strong & efficient

Order for Special Survey No.	Date	Order for Ordinary Survey No.	Date	No.	DATES of Surveys held while building as per Section 18.	1st. On the several parts of the frame, when in place, and before the plating was wrought	2nd. On the plating during the process of riveting	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 or cemented...	5th. After the ship was launched and equipped	Special Survey Date of Survey
1486	10th May 1874			39							10th May 1874
											10th May 1874

**General Remarks,** (State quality of workmanship &c.) Workmanship & material good  
is fitted with Raised Quarter Deck frames all to the top height beams of hull 6 1/2 x 6 1/2 Double angles 4 x 2 1/2 x 5/16  
Stringer plates on end 4 1/2 x 8 1/2. Angles on top 4 x 3 1/2 x 6 1/2. Deck plates 10 x 8 1/2. Plating 8 1/2 x 7 1/2 x 5/16. Deck 3 1/2 x 5/16  
Forecastle frames all to the top height, beams of single angles 5 x 3 1/2 x 7 1/2. Keel of hull 7 x 7 1/2 Double angles on top edges 2 1/2 x 2 1/2 x 5/16. Stringer plates on end 2 1/2 x 3 1/2. Angles on top 2 1/2 x 2 1/2 x 5/16. Side plates 4 x 5 1/2. Waterways R. & P. Pine & Oak, Deck 3 in 1/2 Pine, Plating outside 5/16.  
Water-tight bulkheads fitted in fore & after hold frames cut connection inside with three plates side plates 7 1/2. Angles on top 3 1/2 x 3 1/2 x 7 1/2. Web plates 6 1/2 angles on top 2 1/2 x 2 1/2 x 5/16. Plating 6 1/2.  
Additional strengthening at break of Raised Quarter Deck, Sheerstrakes doubled at break in length 20 ft. with plate 20 x 8 1/2. Main Deck Stringer plates extend 7 ft. Spaces about break Raised Deck 5 ft. 4 ft. spaces before. Hold beam stringers overlap about 16 ft. Butts of shell plating in neighbourhood of break better riveted.

State if one, two or three decked vessel, or if open or awning decked, and lengths of poop, fore-castle or raised quarter deck, or of double or part double bottom.  
 How are the surfaces preserved from oxidation? Inside Red lead painted with Portland Cement Outside Paint of Black Lead  
 I am of opinion this Vessel should be Classed 90 A1

The amount of the Entry Fee ... £ 5 : 0 : 0 is received by me,  
 Special ... £ 47 : 14 : 0 24th May 1874  
 Certificate ...  
 (Travelling Expenses) (if any) £ 5 : 0 : 0  
 Committee's Minute 12th December 1874  
 Character assigned \* 90 A1  
 This vessel appears eligible to be classed as recommended by Lloyd's Register Foundation