

IRON SHIP.

Rec 30/4/14

No. 12422 Survey held at North Shields Date, First Survey 13th Oct 1873 Last Survey 14th April 1874.

On the S.S. JOHN O. SCOTT Yard Number 65 Master Robert Reilly

TONNAGE under Deck 734.14
 Ditto of Third Spar, or Awning Deck 12.00
 Ditto of Raised Qr. Dk. 64.94
 Ditto of Houses on Deck 72.01
 Ditto of Forecastle 22.96
 Gross Tonnage 906.13
 Less Crew Space 40.89
 Less Engine Room 209.96
 Register Tonnage as out on Beam 575.28

ONE, OR TWO DECKED, THREE DECKED VESSEL.
 SPAR, OR AWNING-DECKED VESSEL.
 HALF BREADTH (moulded) 14.25
 DEPTH from upper part of Keel to top of Upper Deck Beams 17.0
 GIRTH of Half Midship Frame (as per Rule) 28.2
 1st NUMBER 59.45
 2nd NUMBER 12.781
 PROPORTIONS—Breadths to Length UNDER 8
 Depths to Length—Upper Deck to Keel 13
 Main Deck ditto

Built at North Shields
 When built 1874 Launched 18 Feb 74
 By whom built Messrs Smith
 Owners John O. Scott & Co
 Port belonging to Newcastle
 Destined Voyage Hamburg
 If Surveyed while Building, Afloat, or in Dry Dock. while Building

LENGTH on deck as per Rule 215 Feet. BREADTH Moulded 28 6 Feet. DEPTH top of Floors to Upper Deck Beams 15 6 Feet. Power of Engines 115 Horse. No. of Decks with flat laid ONE No. of Tiers of Beams ONE

Dimensions of Ship per Register, length 216.0 breadth 28.7 depth 15.4

KEEL, depth and thickness 8 x 2 3/8
 STEM, moulding and thickness 8 x 2 1/2
 STERN-POST for Rudder do. 9 x 3 3/4
 Distance of Frames from moulding edge to moulding edge, all fore and aft 22 in.
 FRAMES, Angle Iron, for 1/2 length amidships 3 1/2 x 3 x 7/16
 Do. for 1/4 at each end 3 1/2 x 3 x 7/16
 REVERSED FRAMES, Angle Iron 3 x 2 1/2 x 7/16
 FLOORS, depth and thickness of Floor Plate at mid line for half length amidships 18 x 7/16
 thickness at the ends of vessel 6 1/16
 depth at 1/4 the half-bdth. as per Rule 3 1/2 x 2 1/2 x 7/16
 height extended at the Bilges 3 1/2 x 2 1/2 x 7/16
 BEAMS, Upper, Spar, or Awning Deck Single or d'ble Ang. Iron, Plate or Tee Bulb Iron Single or double Angle Iron on Upper edge Average space 44 in.
 BEAMS, Main or Middle Deck Single or d'ble Ang. Iron, Plate or Tee Bulb Iron Single or double Angle Iron on Upper edge Average space 44 in.
 BEAMS, Lower Deck, Hold or Orlop Single or d'ble Ang. Iron, Plate or Tee Bulb Iron Single or double Angle Iron on Upper edge Average space 44 in.
 KEELSONS Centre line, single or double plate, box, or Intercoastal, Plates 33 x 7/16
 Rider Plate 4 1/2 x 3 1/2 x 7/16
 Bulb Plate to Intercoastal Keelson 4 1/2 x 3 1/2 x 7/16
 Angle Irons 4 1/2 x 3 1/2 x 7/16
 Double Angle Iron Side Keelson 4 1/2 x 3 1/2 x 7/16
 Side Intercoastal Plate 4 1/2 x 3 1/2 x 7/16
 do. Angle Irons 4 1/2 x 3 1/2 x 7/16
 Attached to outside plating with angle iron
 BILGE Angle Irons 3 1/2 x 3 1/2 x 7/16
 do. Bulb Iron 26 x 5/16
 do. Intercoastal plates riveted to plating for 173 length THROUGH ENGINE ROOM
 BILGE STRINGER Angle Irons 4 1/2 x 3 1/2 x 7/16
 Intercoastal plates riveted to plating for length 4 1/2 x 3 1/2 x 7/16
 SIDE STRINGER Angle Irons 4 1/2 x 3 1/2 x 7/16

Flat Keel Platen, breadth and thickness 36 x 9/16
 PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges of doubling at Bilge, or increased thickness, and length applied 2 x 1/2 x 7/16
 fin up. part of Bilge to Ir. edge of Sh'rstrake 7 1/2 x 8/16
 Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied from Min. to Up. or Spar Dk. Sh'rstrake. 36 x 12/16
 Up. or Spar Dk Sh'rstrake, breadth & thickness 36 x 12/16
 Butt Straps to outside plating, breadth & thickness 10 1/2 x 1 1/2 x 7/16
 Lengths of Plating FIVE SPACES
 Shifts of Plating, and Stringers TWO SPACES
 Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness 43 x 9/16
 Angle Iron on ditto 4 1/2 x 3 1/2 x 7/16
 Tie Plates fore and aft, outside Hatchways 10 x 8/16
 Diagonal Tie Plates on Beams No. of Pairs
 Planksheer material and scantling CUTTER
 Waterways do. do. CUTTER
 Flat of Upper Deck do. 3 1/2 x 7/16
 How fastened to Beams Lower
 Stringer Plate on ends of Main or Middle Deck 23 x 7/16
 Beams, breadth and thickness 23 x 7/16
 Is the Stringer Plate attached to the outside plating? YES
 Angle Irons on ditto, No. 3 1/2 x 2 1/2 x 7/16
 Tie Plates, outside Hatchways 3 1/2 x 3 1/2 x 7/16
 Diagonal Tie Plates on Beams No. of Pairs
 Waterways materials and scantling
 Flat of Middle Deck do.
 How fastened to Beams
 Stringer Plates on ends of Lower Deck, Hold or Orlop Beams
 Is the Stringer Plate attached to the outside plating? YES
 Angle Irons on ditto, No.
 Stringer or Tie Plates, outside Hatchways
 Flat of Lower Deck
 Ceiling betwixt Decks, thickness and material 2 1/2 fir
 in hold do. 2 1/2
 Main piece of Rudder, diameter at head 5
 do. at heel 3
 Can the Rudder be unshipped afloat? YES
 Bulkheads No. 4 Thickness of 7/16
 Height up 30 in. upper deck attached to side of ship
 How secured to sides of ship bolts & frames
 Size of Vertical Angle Irons 3 1/2 x 2 1/2 x 7/16 and distance apart 30 ins.
 Are the outside Plates doubled two spaces of Frames in length? YES

Transoms, material. Knight-heads. Hawse Timbers. Iron plates & angles.
 Windlass Non patent Pall Bitt Non

The FRAMES extend in one length from Keel to Gunwale Riveted through plates with 3/4 in. Rivets, about 6 apart.
 The REVERSED ANGLE IRONS on floors and frames extend across middle line to above and stringers 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 1/2 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 1/4 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 Strakes at Bilge for 1/4 length, treble riveted with Butt Straps 1/6 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 1/4 ins. from cr. to cr.
 Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 3/4 in. diameter, averaging 3 1/4 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 1/4 length amidships. Butts of Upper or Spar Sheerstrake, treble riveted for 1/4 length amidships.
 Butts of Main Stringer Plate, treble riveted for 1/4 length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for 1/4 length.
 Breadth of laps of plating in double riveting 4 1/4 Breadth of laps of plating in single riveting 2 1/4

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? Double and Butts as per rule
 Waterway, how secured to Beams Gutter (Explain by Sketch, if necessary.)
 Beams of the various Decks, how secured to the sides? Beams secured to frames No. of Breasthooks, 5 Crutches, 3
 What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? angles "Bostons" "Palmer's"
 Manufacturer's name or trade mark, Plates "Palmer's"

The above is a correct description.
 Builder's Signature, for Mr. Wm. Smith Surveyor's Signature, James Rennie
 Wm. Rennie

Workmanship. Are the butts of plating planed or otherwise fitted? *Planed where practicable*
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? *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? *Very few in Butts only.*

Masts, Bowsprit, Yards, &c., are *wood* 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 *✓*

125 86 Iron

NUMBER for EQUIPMENT		14.059.		Fathoms.	Inches.	Test per Certificate.	Length & Size req'd pr Rule	Test req'd per Rule.	ANCHORS, &c.	N ^o .	Weight. Ex. Stock.	Test per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.	
N ^o .	SAILS.		CABLES, &c.	240	1 1/16	37 1/4	240-1 1/16	3 7/320	Bowers ...	3	18.3.10	19.15.1.7	18.0.0	19.0.0	
	Fore Sails,	Chain ...	(State Machine where Tested, Date, & name of Superintendent.)	Breakin' strain	55 1/8				(State Machine where Tested, Date, and name of Superintendent.)		18.1.14	19.6.2.4	18.0.0	19.0.0	
	Fore Top Sails,	Loyd's	J. H. R. Russell Capt.								18.1.14	19.14.0.4	15.1.6	16 1/2	
	Fore Topmast Stay Sails	Imp'd Strm Cbl	90	15 1/16			90-15 1/16				27 Tons and 11 C	Dec 1873.			
	Main Sails,	Hawser ...	90	9			90-9		Stream ...	1	8.2.14		8.0.0		
	Main Top Sails,	Towlines ...	90	5 1/2			90-5 1/2				4.0.21		4.0.0		
		Warp ...	90	4 1/2					Kedges ...	2	2.1.14		2.0.0		
		quality	90	3 1/2											