

19717 IRON SHIP.

No. 13769 Survey held at Newcastle Date, First Survey 14 April Last Survey 14 Nov 1877.

On the S.S. "Jenny Otto." Master S. Hughson

TONNAGE under Tonnage Deck 1377.49 ONE, OR TWO DECKED, THREE DECKED VESSEL. SPAR, OR AWNING-DECKED VESSEL. HALF BREADTH (moulded)... 16.40 DEPTH from upper part of Keel to top of Upper Deck Beams 24.75 GIRTH of Half Midship Frame (as per Rule) 36.75 1st NUMBER (7/16th deducted) 70.9 1st NUMBER, if a THREE-DECKED VESSEL [deduct 7 feet] LENGTH 248.5 2nd NUMBER 17618 PROPORTIONS—Breathths to Length 7.5 Depths to Length—Upper Deck to Keel 10 Main Deck ditto 14

LENGTH on deck as 248 6 BREADTH—Moulded 32 9 DEPTH top of Floors to Upper Deck Beams 22 11 Do. do. Main Deck Beams 15 11 Power of Engines 160 No. of Decks with flat laid 2 No. of Tiers of Beams 3

Dimensions of Ship per Register, length 250.5 breadth 33.2 depth 23.0

	Inches in Ship.	Inches per Rule.	Inches in Ship.	Inches per Rule.
KEEL, depth and thickness	9 x 2 1/2	9 x 2 1/2		
STEM, moulding and thickness	8 1/2 x 2 1/2	8 1/2 x 2 1/2		
STERN-POST for Rudder do. do.	3 8 1/2 x 5	3 8 1/2 x 5		
for Propeller	24	24		
Distance of Frames from moulding edge to moulding edge, all fore and aft				
FRAMES, Angle Iron, for 2/3 length amidships	4 1/2 x 3	4 1/2 x 3	7	7
Do. for 1/3 at each end	4 1/2 x 3	4 1/2 x 3	6	6
REVERSED FRAMES, Angle Iron	3 x 3	3 x 3	7	7
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships	22 x 9	22 x 9		
thickness at the ends of vessel	11	11	7	7
depth at 2/3 the half-bdth. as per Rule	11	11	7	7
height extended at the Bilges	44	44		
BEAMS, Upper, Spar, or Awning Deck Single or double Angle Iron, Plate or Tee Bulb Iron	7 x 7	7 x 7	7	7
Single or double Angle Iron on Upper edge	3 x 3	3 x 3	6	6
Average space	40	40		
BEAMS, Main, or Middle Deck Single or double Angle Iron, Plate or Tee Bulb Iron	5 1/2 x 3	5 1/2 x 3	8	8
Single or double Angle Iron on Upper edge	3 x 3	3 x 3	8	8
Average space	24	24		
BEAMS, Lower Deck, Hold, or Orlop Single or double Angle Iron, Plate or Tee Bulb Iron	3 x 3	3 x 3	8	8
Single or double Angle Iron on Upper edge	3 x 3	3 x 3	8	8
Average space	as approved plan	as approved plan		
KEELSONS Centre line, single or double plate, and Intercoastal Plates	20 x 8	20 x 8	8	8
Rider Plate	27 x 8	27 x 8	8	8
Bulb Plate to Intercoastal Keelson	10 x 10	10 x 10	10	10
Angle Irons	5 x 4	5 x 4	9	9
Double Angle Iron Side Keelson	5 x 4	5 x 4	9	9
Side Intercoastal Plate	5 x 4	5 x 4	9	9
do. Angle Irons	5 x 4	5 x 4	9	9
Attached to outside plating with angle iron	3 x 3	3 x 3	7	7
BILGE Angle Irons	5 x 4	5 x 4	9	9
do. Bulb Iron	8 x 8	8 x 8	8	8
do. Intercoastal plates riveted to plating for length	5 x 4	5 x 4	9	9
BILGE STRINGER Angle Irons	5 x 4	5 x 4	9	9
Intercoastal plates riveted to plating for 1/2 length	-	-	-	-
SIDE STRINGER Angle Irons				
Transoms, material. Knight-heads. Hawse Timbers.	Iron			
Windlass	Iron			
Pall Bitt	Iron			

The FRAMES extend in one length from Keel to Gunwale

The REVERSED ANGLE IRONS on floors and frames extend from middle line to Gunwale

KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? Yes

PLATING. Garboard, double riveted to Keel, with rivets 1 1/8 in. diameter, averaging 5 1/4 ins. from centre to centre.

Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 7/8 in. diameter, averaging 4 ins. from centre to centre.

Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 7/8 in. diameter averaging 3 7/8 ins. from centre to centre.

Butts of 3 Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 4/6 thicker than the plates they connect.

Edges from bilge to Main Sheerstrake, worked clencher, double single riveted; with rivets 7/8 in. diameter, averaging 3 7/8 ins. from cr. to cr.

Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 7/8 in. diameter, averaging 3 7/8 ins. from cr. to cr.

Edges of Main Sheerstrake, double single riveted.

Butts of Main Sheerstrake, treble riveted for 1/2 length amidships. Butts of Upper or Spar Sheerstrake, treble riveted 1/2 length amidships.

Butts of Main Stringer Plate, treble riveted for 1/2 length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for 1/2 length.

Breadth of laps of plating in double riveting 5 1/4 Breadth of laps of plating in single riveting

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? double and treble riveted

Waterway, how secured to Beams riveted

Beams of the various Decks, how secured to the sides? Welded lines riveted

No. of Breasthooks, 5 Crutches, 4

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

Manufacturer's name or trade mark, Dorman, Long & Co; the plating from the Consett Iron Works.

The above is a correct description.

Builder's Signature, Megham Richardson & Co Surveyor's Signature, H. Reed

Surveyor to Lloyd's Register of British and Foreign Shipping.

* On per deck after date 14.3.77

190475-0037

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? *yes*
Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *fairly so*
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* 19717 *Ln*

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 *✓*

NUMBER for EQUIPMENT		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.	
21293 24493		270	1 11/16	57 3/10 71-55	270-14 1/2 16	51 1/4 71 3/4	Bowers	3	27.3.0 27.3.0 23.1.20	27.0.00 27.0.00 23.10.00	27.3.0 27.3.0 23.2.10	26 10/20 26 10/20 23 1/20	
SAILS.		CABLES, &c.		Chain		ANCHORS.		No.		Weight. Ex. Stock.		Test per Certificate	
Fore Sails,		Fore Top Sails,		Fore Topmast Stay Sails		Main Sails,		Main Top Sails,		and		quality	
Fore Sails,		Fore Top Sails,		Fore Topmast Stay Sails		Main Sails,		Main Top Sails,		and		quality	
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