

IRON SHIPS.

No. 3060 Survey held at Hartlepool Date, First Survey 4th May 1872 Last Survey 17th April 1872On the Screw Steamer "Agnus Louisa" Master James HodgemanTonnage under Tonnage Deck 592.85Ditto of Third Spar, or Awning Deck 95.20Ditto of Poop, or Raised Or. Dk. 14.51Ditto of Houses on Deck 702.56Ditto of Forecastle 41.37Gross Tonnage 661.19Crew Space, as per Rule 224.82Registered Tonnage, cut on Beam 436.37Engine Room 118.86Register Tonnage, as a Steamer, cut on Beam 12

ONE, OR TWO DECKED, SPAR, OR AWNING-DECKED VESSELS.

Half Moulded Breadth... 2

Total Depth of three or more Decks... 17-6 1/2

Total Girth of Half Mid-ship Frame... 20-7

3rd Number... 60-5 1/2

Length... 184

2nd Number... 118.86

4th Number... 118.86

Depths to Length... 12

Breadths to Length... 7

Built at HartlepoolWhen built 1871 Launched 14th SeptemberBy whom built Widby Alexander & Co.Owners Stephenson Clark & Co.Port belonging to LondonDestined Voyage Coasting

If Surveyed while Building, Afloat, or in Dry Dock.

Length on deck as per Rule, 184 Feet. Inches. Moulded Breadth, 20 Feet. Inches. Depths from top of Floors to Upper and Main Deck Beams, as per Rule, 16 Feet. Inches. Horse. 90 No. of Decks with flat laid One No. of Tiers of Beams TwoDimensions of Ship per Register, length, 184-1 breadth, 20-3 depth, 15-6

Inches. In Ship. 16ths. required per Rule. Inches. In Ship. 16ths. required per Rule. Inches. In Ship. 16ths. required per Rule. Inches. In Ship. 16ths. required per Rule.

Keel, if bar iron, depth and thickness 7 1/2 x 2 1/4 Inches. In Ship. 16ths. required per Rule. 7 1/2 x 2 1/4 Inches. In Ship. 16ths. required per Rule.Do. if centre through plate, depth and thickness 7 x 2 1/4 Inches. In Ship. 16ths. required per Rule. 7 x 2 1/4 Inches. In Ship. 16ths. required per Rule.Stem, if bar iron, moulding and thickness 8 1/4 x 3 1/8 Inches. In Ship. 16ths. required per Rule. 8 1/4 x 3 1/8 Inches. In Ship. 16ths. required per Rule.Stern-post for Rudder do. do. 8 x 4 1/2 Inches. In Ship. 16ths. required per Rule. 8 x 4 1/2 Inches. In Ship. 16ths. required per Rule.Stern-post for Propeller do. do. 22 (Class 90. A1) Inches. In Ship. 16ths. required per Rule. 22 (Class 90. A1) Inches. In Ship. 16ths. required per Rule.Distance of Frames from moulding edge to moulding edge, all fore and aft 22 (Class 90. A1) Inches. In Ship. 16ths. required per Rule. 22 (Class 90. A1) Inches. In Ship. 16ths. required per Rule.Frames, size of Angle Iron, for 1/2 length amidships 4 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 4 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Do. for 1/2 at each end 4 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 4 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Reversed Frames, size of Angle Iron 3 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 3 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Floors, depth and thickness of Floor Plate at mid line for half the length amidships 10 1/2 x 8 1/2 Inches. In Ship. 16ths. required per Rule. 10 1/2 x 8 1/2 Inches. In Ship. 16ths. required per Rule.Do. at the ends 10 1/2 x 7 1/2 Inches. In Ship. 16ths. required per Rule. 10 1/2 x 7 1/2 Inches. In Ship. 16ths. required per Rule.Do. do. do. at Bilge Keelson 13 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 13 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Do. height extended at the Bilges 13 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 13 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Beams, Upper, Spar, or Awning Deck (No. 31) 7 x 7 1/2 Inches. In Ship. 16ths. required per Rule. 7 x 7 1/2 Inches. In Ship. 16ths. required per Rule.single or double Angle Iron, Plate or Tee Bulb Iron 3 x 2 1/2 Inches. In Ship. 16ths. required per Rule. 3 x 2 1/2 Inches. In Ship. 16ths. required per Rule.Single or double Angle Iron on Upper edge 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Average space 4 1/2 Inches. In Ship. 16ths. required per Rule. 4 1/2 Inches. In Ship. 16ths. required per Rule.Beams, Main or Middle Deck (No.) single, or double Angle Iron, Plate or Tee Bulb Iron 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Single, or double Angle Iron, on Upper Edge 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Average space 4 1/2 Inches. In Ship. 16ths. required per Rule. 4 1/2 Inches. In Ship. 16ths. required per Rule.Beams, Lower Deck, Hold or Orlop (No. 20) 7 x 7 1/2 Inches. In Ship. 16ths. required per Rule. 7 x 7 1/2 Inches. In Ship. 16ths. required per Rule.single or double Angle Iron, Plate or Tee Bulb Iron 3 x 2 1/2 Inches. In Ship. 16ths. required per Rule. 3 x 2 1/2 Inches. In Ship. 16ths. required per Rule.Single or double Angle Iron on Upper Edge 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Average space 4 1/2 Inches. In Ship. 16ths. required per Rule. 4 1/2 Inches. In Ship. 16ths. required per Rule.Keelson Centre line, single or double plate, box, or intercostal, size of Plates 13 x 10 1/2 Inches. In Ship. 16ths. required per Rule. 13 x 10 1/2 Inches. In Ship. 16ths. required per Rule.Do. Bulb Plate to Intercostal Keelson 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Do. Size of Angle Irons 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Do. Side Intercostal Keelson, size of Plates 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Do. Angle Irons on tops of Floors 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Do. Bilge Keelson, Bulb Iron 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Do. do. Intercostal plates riveted to plating for length 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Do. do. Angle Irons 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Side Stringers (No. one) size of Angle Irons 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Do. Intercostal plates riveted to plating for length 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule. 4 1/2 x 3 1/2 Inches. In Ship. 16ths. required per Rule.Transoms, material Plate or, if none, in what manner compensated for.Knight-heads Iron Hawse Timbers IronWindlass Swing Pall Bitt IronThe Frames extend in one length from Keel to gunwale Riveted through plates with (3/4 in.) Rivets, about 4 in. apart.The Reverse Angle Irons on the floors and frames extend across the middle line to top of bilge to gunwale and to gunwale alternatelyKeelsons. Are the various lengths of Plates and Angle Irons properly connected? yes And are their butts properly shifted? yesPlates, Garboard, double or Riveted to Keel, double or at upper edge, with Rivets (1 in.) diameter, averaging (5 ins.) from centre to centre.Do. Edges from Garboards to upper part of Bilge, worked Clencher, double or single Riveted; with Rivets (3/4 in.) diameter, averaging (3 1/2 ins.) from centre to centre.Do. Butts from Keel to turn of Bilge, worked carvel with butt straps to strakes (9 1/2 in.) thick, double or single Riveted; with Rivets (3/4 in.) diameter averaging (3 1/2 ins.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below? noDo. of two Strakes at Bilge for half length, treble riveted with Butt Straps 1 1/2 thicker than their plates.Do. Edges from bilge to Main Sheerstrake, worked carvel with a lining piece (1 1/2 in.) thick, or clencher, double or single riveted; with rivets (3/4 in.) diameter, averaging (3 1/2 ins.) from centre to centre.Do. Edges of Sheerstrake, Main, double or single Riveted. Upper, double or single Riveted. At upper edge single At lower edge doubleDo. Butts from Bilge to Main Sheerstrake, worked Carvel with Butt Straps (10 1/2 in.) thick, double or single Riveted; with Rivets (3/4 in.) diameter, averaging (3 1/2 ins.) from centre to centre.Do. Butts of Main Sheerstrake, double or treble Riveted. Butts of Upper or Spar Sheerstrake, and Upper Deck Stringer Plate, double or treble Riveted for half length amidships. Breadth of laps of plating in double Riveting (4 1/4) 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 & TreblePlanksheer, how secured to the plating of the sides. Waterway, how secured to the planksheer and to the Beams. (Explain by Sketch, if necessary.) GoodBeams of the various Decks, how secured to the sides? End turned & then welded No. of Breasthooks, Seven Crutches, TwoWhat description of Iron is used for the Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? GoodManufacturer's name or trade mark, T.R. & Co. - Thorne - Stockton-on-Tees - W. W. & Co.

We certify that the above is a correct description of the several particulars therein given.

Builder's Signature, Widby Alexander & Co. Surveyor's Signature, S. P. Gladstone

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
Do the fillings between the ribs and plates fill in solid with single pieces? or are they in short lengths of various thicknesses? 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 and are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? Yes
Are there any rivets which either break into or have been put through the seams or butts of the plating? A few in butts

Her Masts, Bowsprit, Yards, &c., are in Good condition, and sufficient in size and length. If they are of Iron or Steel give the 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 70 feet, Diameter 17 1/2, Fore Mast 64 feet, Diameter 18, Mizen 5 1/2

10008 Irons

Rules 1871

Number for equipment	2194	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	No.	Weight. Ex. Stock.	Test as per Certificate.	Wt. req'd per Rule.	Test req'd per Rule.
SAILES.	CABLES, &c.	240	1 5/16	31-000	1 5/16	31-000	Bowers	3	15-2-0 15-1-14 13-1-0	16-10-3-0 16-16-2-7 14-10-1-14	15-1-0 15-1-0 13-0-0	16-14-0-0 16-14-0-0 14-15-0-0
Fore Sails,	Chain	W. Sunderland	3 1/2	1071 April			(State Machine where Tested, and name of Superintendent).					
Fore Top Sails,	Tested, and name of Superintendent).	John Hartnoll Superintendent.										
Fore Topmast Stay Sails	Hempen Stream	60	4 1/2				Stream	1	6-1-24		6-2-0	
Main Sails,	Cable	80	1 1/2				Kedges	2	3-0-24 1-3-0		3-1-0 1-3-0	
Main Top Sails,	Hawser	80	8									
	Towlines	80	5									
	Warp	80	4									
	All of <u>Good</u> quality.	120										

Her Standing and Running Rigging Wire & Hemp sufficient in size and Good in quality. She has Three Long Boat and four boats.
The present state of the Windlass is Good Capstan 2 of Iron and Rudder Good Pumps 2 of 7 inch Metal
Engine Room Skylights.—How constructed? Iron, Oak, iron comings How secured in ordinary weather? Bullseyes
What arrangements are there for deadlights in such for bad weather? Bullseyes
Coal Bunker Openings.—How constructed? Iron pipes How are lids secured? Clasps How high above deck? 6 inches
Scuppers, &c.—What arrangements are there beyond the scuppers on deck, for clearing upper deck of water, in case of a sea coming on board? Porth in bulwark

Cargo Hatchways.—How formed? 7/16 Plate State size 18 1/2 x 12 1/2 in height of comings 30 inches.
If of extraordinary size, state how framed and secured? Brackets 14 1/2 x 11 1/2 in height of comings 18 inches.
What arrangement for shifting beams? 7/16 Plate the whole depth of comings
Hatches, themselves, whether strong and efficient? Good Main Hatchways.—State size 22 1/2 x 11 1/2 in height of comings 32 in.

Order for Special Survey No. 800 DATES of 1st. On the several parts of the frame, when in place, and before the plating was wrought Special Survey
Date 9th May 1871 Surveys held 2nd. On the plating during the progress of riveting Seen twice each
Order for Ordinary Survey No. while building 3rd. When the beams were in and fastened, and before the decks were laid week during
Date as per 4th. When the ship was complete, and before the plating was finally coated or cemented building
No. 23 in builder's yard. Section 18. 5th. After the ship was launched and equipped

General Remarks, Is fitted with Raised Quarter Deck frames all to the top height, Beams built 6 1/2 x 4 1/2. Double Angles on top edges 2 1/2 x 2 1/2 x 5/16. Stringer plates on ends of do. 2 1/2 x 7/16. Angles 1 1/2 x 3/4 x 5/16. Tie plates 8 x 7/16. Diagonal plates 8 x 7/16. Plating 1/8 in. Deck 3 inch Pine, fastened with 9/16 nut bolts. Waterballast tanks fitted in fore & main hold, frames cut off connection made with knee plates, side plates 7/16. Angles on do. 1 1/2 x 3/4 x 7/16. Web plates 6/16. Angles on do. 2 1/2 x 2 1/2 x 5/16. Plating 5/16. Main deck stringer plates extend 12 feet abaft break of raised deck, the same connected to raised deck stringer plates with vertical plate 8 1/2 x 0 1/2. Double Angles top & bottom edges.

W. H. Alexander

State if one, two or three decked vessel, or if spar or awning decked, and lengths of poop, forecabin or raised quarter deck, or of double or part double bottom.
In what manner are the surfaces preserved from oxidation? Inside Hot painted with Red Lead Outside, other parts with Paint

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£ 33 : 1 : 0
Certificate : :
(Travelling Expenses)
(if any) £

Committee's Minute 19th April 1872

Character assigned 90 A1

I concur in the opinion that this vessel should be classed 90 A1.
Rules 1870 for the vessel
1871 for outfit
Lloyd's Register
Foundation