

# 2422 IRON SHIPS.

No. 7139 Survey held at Sunderland Date April 9<sup>th</sup> 1881  
 on the S.S. Newburn Master Jodds

Tonnage Gross 687 Engine Room 158 Register 529 Built at Sunderland

When Built 1881 By whom built W. J. Loring Owners Fenwick & Co

Launched 9 March 1881 Port belonging to London Destined Voyage London

Surveyed Afloat or in Dry Dock whilst building

Length aloft	Feet. Inches.		Extreme Breadth	Feet. Inches.		Depth from top of Upper Deck Beam to top of Floor	Feet. Inches.		Power of Engines	Horse No.
	Feet.	Inches.		Feet.	Inches.		Feet.	Inches.		
195			20		8		10	9	90	
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft	18		18							
Floors, Size of Angle Iron, and No. 1 at bottom of Floor Plate	3	4	7/16	3	4	7/16				
depth and thickness of Floor Plate at mid line	17		7/16	10 1/4		7/16				
depth and thickness of Floor Plate at Bilge Keelson	5		7/16	14		7/16				
Size of Reversed Angle Iron, and No. 1 at top of Floor Plate	3	3	7/16	3	2 3/4	9/16				
Frames, Size of Angle Iron, single or double	3	4	7/16	3	4	7/16				
Reversed Iron, if to every frame	Bilged on every shear frame, to the upper part of the gunwale									
Beams, Deck (No. 1-9) double angle iron or Bulb iron with double angle iron on top	Bilged on every shear frame, to the upper part of the gunwale									
depth & thickness of plate amidships	1 3/4		9/16	7		7/16				
double or single angle iron, on lower edge	3	2 1/2	9/16	2 1/2	2 1/2	5/8				
average space between	3 feet		3 feet							
if wood (No. ) sided & moulded										
Hold, or Lower Deck (No. 20) double angle iron or Bulb iron with double angle iron on top	Bilged on every shear frame, to the upper part of the gunwale									
depth & thickness of plate amidships	1 3/4		9/16	7		7/16				
double or single angle iron, on lower edge	3	2 1/2	9/16	2 1/2	2 1/2	5/8				
average space between	0 feet		3 feet							
if wood (No. ) sided & moulded										
Paddle, wood, sided and moulded or if iron, size of Plate										
Engine Mercantile										
Keelson, wood, sided & moulded, iron, size of plate, if Box, give sketch & dimensions	20		7/16	2 1/4		7/16				
Side or Bilge	5	3	9/16	4 1/4	3 1/2	7/16				
Number	3									

Transoms, material Engl Oak or if none, in what manner compensated for round stern framed complete

Knight-heads Engl Oak Bulkheads, No. 4 Thickness of 9/16

Hawse Timbers Engl Oak are they free from defects? no how secured to the sides of the ship rivetted between two frames

The Frames or Ribs extend in one length from middle line gunwale rivetted through plates with (3/4 in.) rivets, about (5-6) apart.

The reverse angle irons on the floors extend in one length across the middle line from upper part of Bilge to 8'

Keelson, how are the various lengths of plates or angle irons connected? by lining pieces

Plates, Garboard, double or single rivetted to keel & at upper edge, with rivets (3/4 in.) diameter averaging (3 1/2 in.) from centre to centre of rivet.

Edges from Garboards to upper part of bilge, worked carvel with a lining piece ( ) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 1/2 in.) from centre to centre of rivets.

Butts from Keel to turn of bilge, worked carvel with a lining piece ( ) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 1/2 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? no

Edges from bilge to planksheer, worked carvel with a lining piece ( ) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 1/2 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? no

Butts from bilge to planksheers, worked carvel with a lining piece ( ) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter averaging (3 1/2 in.) from centre to centre of rivets. Breadth of laps in double rivetting ( ) Breadth of laps in single rivetting ( )

Planksheer, how secured to the plating of the sides { Explain by sketch, } Cutter Waterway

Waterway " " planksheer and to the Beams { if necessary. } Cutter Waterway

Side trussing breadth and thickness of plates how secured?

Deck trussing 3 pairs of Diagonal plates extending from Gunwale plate to

Deck Beams, how secured to the side? Three plates rivetted to the frames

Hold or Lower Deck " " " " " "

Paddle " " " " " "

No. of breasthooks crutches 6 how are pointers compensated? Round stern framed complete

What description of iron is used for the angle iron and plate iron in the vessel? Humber 7. angle iron  
Somerset's Plates

Builder's Signature Lloyd's Register Foundation

2422 In on

**Workmanship.** Are the lands or laps of the clenchwork in all cases in breadth at least five times the diameter of the rivets in double rivetted edges and butts, and at least three times the diameter of the rivets where single rivetting is admitted? yes

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

Do the fillings between the ribs and plates fill in solid with single pieces, or are they in short lengths of various thicknesses? yes

Do the holes for rivetting plate to frames, lining pieces, or plate to plate, &c., conform well to each other? yes and are the rivet holes well and sufficiently countersunk in the outer plate? yes

Are there any rivets which either break into or have been put through the seams or butts of the plating? a few in corners of butts

Her Masts, Yards, &c., are in good condition, and sufficient in size and length.

She has SAILS.		CABLES, &c.		ANCHORS, and their weights.	
N <sup>o</sup> .		Fathoms.	Inches.	N <sup>o</sup> .	Wt.
7	Fore Sails,	Chain	240 15/16	Bower,	2 21/16
	Fore Top Sails,	Hempen Stream Cable		Stream,	1 4
	Fore Topmast Stay Sails,	Hawser	70 7/8	Kedge,	1 3
2	Main Sails,	Towlines	80 9		
1	Main Top Sails,	Warp	80 5/16		
and	<u>missen</u>	All of <u>good</u> quality.			

Her Standing and Running Rigging wire & hemp sufficient in size and good in quality.

She has one Long Boat and three others

The present state of the Windlass is good Capstan good and Rudder good Pumps good

**General Remarks, Statement and Date of Repairs, extent of corrosion (if any) both internally and externally, and condition of rivets**

- DATES of Surveys held while building, as per Section 17.
- 1st. On the several parts of the frame, when in place, and before the plating was wrought 20<sup>th</sup> December 1850
  - 2nd. On the plating during the progress of rivetting 28<sup>th</sup> January 1851
  - 3rd. When the beams were in and fastened, and before the decks were laid 8<sup>th</sup> Feb<sup>r</sup>
  - 4th. When the ship was complete, and before the plating was finally coated 26<sup>th</sup> February 51
  - 5th. After the ship was launched April 5<sup>th</sup> 51

In what manner are the surfaces preserved from oxidation? red lead on the bottom, the flat of bottom and Bilges coated with O. O. Cement

I am of opinion this Vessel should be classed O.A.

The amount of the Fee .....£ 5 : " : " is received by me,

Special .....£ " : " : "

Certificate (if required) .....£ " : 5 : "

Committee's Minute 10<sup>th</sup> May 1861

Character assigned A 1 for 6 Years  
Build of Iron

*Thomas Lawrence*  
Thomas Lawrence