

IRON SHIPS.

No. 7139 Survey held at Sunderland Date April 9 1881
 on the S.S. Newburn Master Todd

Tonnage Gross 687 Engine Room 158 Register 529 Built at Sunderland

When Built 1881 By whom built W. F. Laid Owners Fenwick & Co

Launched 9 March 1881 Port belonging to London Destined Voyage London

Surveyed Afloat or in Dry Dock whilst building

Length aloft 195 Feet. Inches. Extreme Breadth.... 20 Feet. Inches. Depth from top of Upper Deck } Beam to top of Floor..... 10 Feet. Inches. Power of Engines.... 90 Horse No.

Distance of Frames or Ribs from moulding } edge to moulding edge, all fore and aft }	Inches in Ship.		Inches required per Rule.		Stem, if bar iron, moulding and thickness	Inches. In Ship.		Inches required per Rule.	
	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.
Floors, Size of Angle Iron, and No. 1 at bottom of Floor Plate.....	3	4	7/8	3	4	7/8	3	4	7/8
„ depth and thickness of Floor Plate at mid line	17		7/8	10 1/2	7/8				
„ depth and thickness of Floor Plate at Bilge Keelson	5		7/8	4	7/8				
„ Size of Reversed Angle Iron, and No. 1 at top of Floor Plate..	3	3	7/8	3	2 1/4	9/8			
Frames, Size of Angle Iron, single or double..	3	4	7/8	3	4	7/8			
„ Reversed Iron, if to every frame	to the upper part of the keelson				Garboard Plates, thickness..	9/8		9/8	
„ Bilges or every other frame, to the keelson					From Garboard to upper part of Bilge.....	9/8		9/8	
Beams, Deck (No. 4-9) double Angle Iron or Bulb Iron with double Angle Iron on top	3	2 1/2	9/8	2 1/2	5/8			5/8	
„ „ depth & thickness of plate amidships	3 1/2		9/8	7	7/8				
„ „ double or single Angle Iron, on lower edge	3	2 1/2	9/8	2 1/2	5/8				
„ „ average space between	3 feet		3 feet		Angle Iron on ditto.....	3 1/2		3 1/2	
„ „ if wood (No.) sided & moulded					Waterway	3 1/2		3 1/2	
„ Hold, or Lower Deck (No. 2-8) double Angle Iron or Bulb Iron with double Angle Iron on top	3 1/2		9/8	7	7/8				
„ „ depth & thickness of plate amidships	3	2 1/2	9/8	2 1/2	5/8				
„ „ double or single Angle Iron, on upper edge	6 feet		3 feet		Deck	3 1/2		3 1/2	
„ „ average space between	3 feet				Ceiling in Hold	3 1/2		3 1/2	
„ „ if wood (No.) sided & moulded					Ceiling betwixt Decks	Battened			
„ Paddle, wood, sided and moulded or if Iron, size of Plate	20		7/8	2 1/2	7/8				
„ Engine	5	3	9/8	4 1/2	3 1/2				
Keelson, wood, sided & moulded, iron, size of plate, if Box, give sketch & dimensions	3		7/8	3	7/8				
„ Side or Bilge	3		7/8	3	7/8				
„ Number	3		7/8	3	7/8				

Transoms, material or if none, in what manner compensated for round stem framed complete
 Knight-heads Engl. Oak Bulkheads, No. 4 Thickness of 9/8
 Hawse Timbers 8 are they free from defects? „ how secured to the sides of the ship rivetted between two frames
 „ size of vertical angle iron and their distance apart 3 x 3 x 9/8 30 in

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

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

„ „ „ on the frames „ „ „ from middle line to gunwale

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 (in.) 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 (9/8 in.) 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 (9/8 in.) 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 (3 times Breadth of laps in single rivetting (3 times

Planksheer, how secured to the plating of the sides } Explain by sketch, } Cutter Waterway
 Waterway „ „ planksheer and to the Beams } if necessary. }

Side trussing breadth and thickness of plates how secured?

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

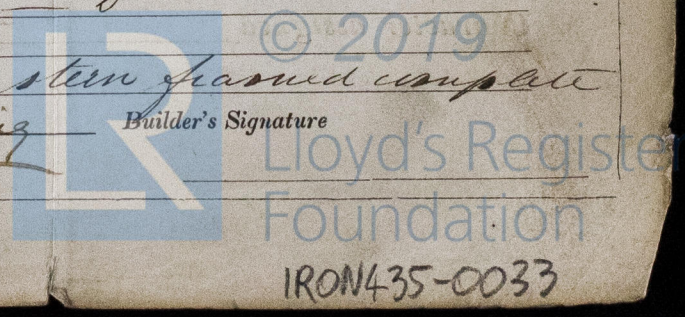
Deck Beams, how secured to the side? Three plates rivetted to the frames

Hold or Lower Deck „ 8

Paddle „ „

No. of breasthooks 7 crutches 6 how are pointers compensated? Round stem framed complete

What description of iron is used for the angle iron and plate iron in the vessel? Hankin 7. angle iron
Sunderland Plate



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 casings 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 ^o .		Fathoms.	Inches.	N ^o .	Weight
7	Fore Sails,	Chain	240 15 1/8	2	2 1/2
	Fore Top Sails,	Hempen Stream Cable			
	Fore Topmast Stay Sails,	Hawser	70 7 1/8	1	4
2	Main Sails,	Towlines	80 9		
	Main Top Sails,	Warp	80 5 1/2	1	3
1	and <u>mizzen</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	<u>20th December 1880</u>
	2nd.	On the plating during the progress of rivetting	<u>28th January 1881</u>
	3rd.	When the beams were in and fastened, and before the decks were laid	<u>8th February 1881</u>
	4th.	When the ship was complete, and before the plating was finally coated	<u>26th February 1881</u>
	5th.	After the ship was launched	<u>April 5th 1881</u>

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

I am of opinion this Vessel should be classed O.A. 1

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

Special£ " : " : "

Certificate (if required)£ " : 5 : "

Committee's Minute 10th May 1881

Character assigned A 1 for 6 Years

Build of Iron



© 2019

Lloyd's Register Foundation