

# IRON SHIPS.

Reg 18/11/58

No. 3010 Survey held at Hull Date November 10 1858  
 on the Ship Knight Grant Master James Corryle  
 Tonnage Gross 1312 Engine Room — Register 1312 Built at Hull launched Sept 9<sup>th</sup>  
 When Built 1858 By whom built Wm Samuelson & Co Owners J. H. Fletcher & Co  
 Port belonging to Liverpool Destined Voyage —  
 If Surveyed Afloat or in Dry Dock White 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.		
208	—	—	35	—	—	25	—	—	—	—
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft	Inches in Ship. 18		Inches required per Rule. 18							
Floors, Size of Angle Iron, and No. 128 at bottom of Floor Plate	Inches. In Ship. 5	Inches. In Ship. 3 1/2	16ths required per Rule. 9/16	Inches. In Ship. 5	Inches. In Ship. 3 1/2	16ths required per Rule. 9/16				
„ depth and thickness of Floor Plate at mid line	25		4/16		25		4/16			
„ depth and thickness of Floor Plate at Bilge Keelson	15 1/2		4/16		15 1/2		4/16			
„ Size of Reversed Angle Iron, and No. 128 at top of Floor Plate	3 1/2		3		8/16		3		8/16	
Frames, Size of Angle Iron, single or double	5		3 1/2		9/16		5		3 1/2	
„ „ Reversed Iron, if to every frame or every alternate frame	3 1/2		3		8/16		3		8/16	
Beams, Deck (No. 59) double Angle Iron or Bulb Iron with double Angle Iron on top	4		3		7/16		4		3	
„ „ depth & thickness of plate amidships	9		1 1/8		4/16		8 1/2		4/16	
„ „ double or single Angle Iron, on lower edge	3 feet		✓							
„ „ average space between	3 feet		✓							
„ „ if wood (No. ) sided & moulded	4		3		7/16		4		3	
„ Hold, or Lower Deck (No. 54) double Angle Iron or Bulb Iron with double Angle Iron on top	4		3		7/16		4		3	
„ „ depth & thickness of plate amidships	9		4/16		8 1/2		4/16			
„ „ double or single Angle Iron, on lower edge	3 feet		✓							
„ „ average space between	3 feet		✓							
„ „ if wood (No. ) sided & moulded	4		3		7/16		4		3	
„ Paddle, wood, sided and moulded or if Iron, size of Plate	9		4/16		8 1/2		4/16			
Keelson, wood, sided & moulded, iron, size of, side plate, of Box, give sketch & dimensions	27		7/16		16 1/2		7/16			
„ Side or Bilge plate, give sketch & dimensions	23		11/16		10/16		11/16			
„ Number	5 1/2		4 1/2		10/16		5 1/2		4 1/2	

Transoms, material Plate iron or, if none, in what manner compensated for By plate iron across the stringers plates on beams

Knight-heads „ „ Bulkheads, No. Two Thickness of 7/8 also on inner ships up to Hold beams

Hawse Timbers „ „ Angle iron are they free from defects? „ how secured to the sides of the ship between double ribs

The Frames or Ribs extend in one length from Keel to Gunwale rivetted through plates with (7/8 in.) rivets, about (6 1/4) apart.

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

„ „ „ on the frames „ „ „ from 9 feet below Bilge to top of Hold beams & from 5 feet below bilge to gunwale alternately

Keelson, how are the various lengths of plates or angle irons connected? By plate iron over the butts of Box Keelson & by angle iron on intercostal beams

Plates, Garboard, double or single rivetted to keel & at upper edge, with rivets (1 1/16 in.) diameter averaging (4 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 (7/8 in.) diameter, averaging (3 ins.) from centre to centre of rivets.

„ Butts from Keel to turn of bilge, worked carvel with a lining piece (9 1/2 x 1 1/8) thick, double or single rivetted; rivets (7/8 in.) diameter, averaging (3 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? Yes

„ Edges from bilge to planksheer, worked carvel with a lining piece (—) thick, double or single rivetted; rivets (7/8 in.) diameter, averaging (3 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? Yes

„ Butts from bilge to planksheers, worked carvel with a lining piece (9 x 1/4) thick, or clencher, double or single rivetted; rivets (7/8 in.) diameter averaging (3 ins.) from centre to centre of rivets. Breadth of laps in double rivetting (3 to the Bilge) Breadth of laps in single rivetting (—)

Planksheer, how secured to the plating of the sides { Explain by sketch, } The gunwale plate rivetted to beams & secured to sheer plates by angle iron also vertical plate 15 inch secured to the gunwale plate by angle iron inside the sheers & waterways are fastened to gunwale plate & to the vertical plate by screw bolts

Waterway „ „ planksheer and to the Beams { if necessary. } But 12 x 3/8 beam

Side trussing None breadth and thickness of plates — how secured? —

Deck trussing Plate iron „ 18 1/2 „ 4/16 fore & aft each side the Hold, also Diagonal brags by plate iron 13 1/2 x 1/16

Deck Beams, how secured to the side? Ends turned down, and knee plates welded on in depth 2 1/4 rivetted to the ribs

Hold or Lower Deck „ and the other beams secured to the sides the same as the Deck beams

Paddle „ „ „

No. of breasthooks — crutches — how are pointers compensated? By Angle iron 5 1/2 x 4 1/2 x 1/8 back to back

What description of iron is used for the angle iron and plate iron in the vessel? Yorkshire

Builder's Signature  
Wm Samuelson & Co  
 Registered  
 IRON 433-0364

1778 *Iron*

**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? Solid

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? No

Her Masts, Yards, &c., are in \_\_\_\_\_ 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> . Weight.
	Fore Sails,	Chain .....			Bower, .....
	Fore Top Sails,	Hempen Stream Cable .....			Stream, .....
	Fore Topmast Stay Sails,	Hawser .....			Kedge, .....
	Main Sails,	Towlines .....			
	Main Top Sails,	Warp .....			
and		All of _____ quality.			

Her Standing and Running Rigging \_\_\_\_\_ sufficient in size and \_\_\_\_\_ in quality.

She has \_\_\_\_\_ Long Boat and \_\_\_\_\_

The present state of the Windlass is \_\_\_\_\_ Capstan \_\_\_\_\_ and Rudder \_\_\_\_\_ Pumps \_\_\_\_\_

**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>7 June 1858</u>
2nd.	On the plating during the progress of rivetting	<u>25 " "</u>
3rd.	When the beams were in and fastened, and before the decks were laid	<u>16 July "</u>
4th.	When the ship was complete, and before the plating was finally coated	<u>18 August "</u>
5th.	After the ship was launched	<u>8 November "</u>

*There are fitted in this Ship Staple standard Tones between decks six three pair at the Fore Mast, three pair at the Main and two pair at the Mizzen Mast, rivetted to the Ribs and Beam plates*

In what manner are the surfaces preserved from oxidation? By Paint

I am of opinion this Vessel should be classed 12 years

The amount of the Fee .....£ 5 : 0 : 0 is received by me,

Special .....£ 65 : 12 : 0

Certificate (if required) .....£ 70 : 12 : 0

Committee's Minute 18<sup>th</sup> November 1858

Character assigned A - for 12 years

*Paul of Iron*

*Honey Adams*  
*This Survey does not state whether the garboard strakes are double or single coated nor whether the plate on the port side is 20 or 21 Quarter was reviewed. In other respects the vessel appears to comply with the regulations of the Act of 1858.*

*18 Nov 1858*

