

IRON SHIPS.

No. 8856 Survey held at Sunderland Date October 5th 1866
 on the Rio Alice Scott Master W. Peterson Rec'd 8/10/66
 Tonnage Gross 556.50 Engine Room Register 356.50 Built at Sunderland
 When Built 1866 Launched Sept 27-1866 By whom built Mr W. Doxey
 Owners C. Cooper Scott Port belonging to London Destined Voyage Rio Janeiro
 If Surveyed Afloat or in Dry Dock Whilst Building

Length aloft 110 Feet. Inches. Extreme Breadth 23.5 Feet. Inches. Depth from top of Upper Deck } Feet. Inches. Beam to top of Floor } 13.25 Power of Engines Horse.

	Inches in Ships.			Inches required per Rule.				Inches. 16ths. Inches. 16ths.				Inches. 16ths. Inches. 16ths.		
Distance of Frames from moulding edge to moulding edge, all fore and aft	21			21			Stem, if bar iron, moulding and thickness	6 1/2	2	6 1/2	2			
							" if plate iron, breadth and thickness							
Floors, Size of Angle Iron, and No. <i>single</i> at bottom of Floor Plate	3	2 1/2	6	3	2 1/2	6	Stern-post, if bar iron, moulding and thickness	6 1/2	2	6	2			
<i>and double for 1/2 sec at middle line</i>							" " if plate iron, breadth and thickness							
" depth and thickness of Floor Plate at mid-line	"	15	6	15	-	6	Keel, if bar iron, depth and thickness	6 1/2		6 1/2	2			
" depth and thickness of Floor Plate at Bilge Keelson	"	7	6	-	-	6	" if plate iron, breadth and thickness							
" Size of Reversed Angle Iron, and No. <i>single</i> at top of Floor Plate	2 1/2	2 1/2	5	2 1/2	2 1/2	5	Garboard Plates, Breadth and thickness	2 ft 5 in	9/16	-	9/16	-	-	-
<i>and double at keelson</i>							From Garboard to upper part of Bilge		8/16	-	8/16	-	-	-
Frames, Size of Angle Iron, single or double	3	2 1/2	6	3	2 1/2	6	From upper part of Bilge to Sheerstrakes		7/16	-	7/16	-	-	-
" " Reversed Iron, if to every frame and on every fourth frame	to top of Bilges			to Gunwale			Sheerstrakes, Breadth and thickness	2 ft 3 in	8/16	-	8/16	-	-	-
Beams, Deck (No. 26) double Angle Iron, Plate, or Bulb Iron	"	6	6		5 1/2	6	Butt Straps to outside plating, Breadth and thickness		9 1/2	1 3/4	9 - 8 - 7	1/2		
" " double or single Angle Iron, on upper edge	2 1/2	2 1/2	5	2 1/2	2 1/2	5	Planksheers	Material.						
" " average space between	on every alternate frame						Gunwale Plate or Stringer on ends of Up. Dk Beams	Griddle Gunwale						
" " if wood (No.) sided & moulded							Angle Iron on ditto		3 x 3	6	3 x 3	6		
" Hold, or Lower Deck (No. 14) double Angle Iron, Plate, or Bulb Iron	"	6	6		5 1/2	6	Diagonal Tie Plates on Beams		9 1/2	6	9	6		
" " double or single Angle Iron, on upper edge	2 1/4	2 1/4	5	2 1/4	2 1/4	5	Waterway	Griddle Gunwale						
" " average space between	on every fourth frame						Deck	of Bone	3	-	2 1/2	-	-	-
" " if wood (No.) sided & moulded							Ceiling in Hold	Red Pine	2	-	2	-	-	-
" Paddle, wood, sided and moulded, or if Iron, size of Plate							Ceiling betwixt Decks	Batten	1 1/2	-	-	-	-	-
" Engine " " " " "							Beam Clamps or Spirketting							
Keelson, single plate, box, or intercostal	10 1/4		9	10		9	" Shelf							
<i>double angle from top & bottom</i>	3	3	6	3	3	6	" Stringer Plates on ends of Hold or Lower Dk Beams		15	6	15 1/2	6		
" Size of Plates	3	3	6	3	3	6	Ceiling between Decks							
" Size of Angle Irons	3	3	6	3	3	6	Stringer or Tie Plates outside Hatchways	Double angle from in Centre	2 1/2 x 2 1/2	5/16	-	-	-	-
Ditto Bilge (No. 1) double angle iron	3	3	6	3	3	6	Deck Beam Clamps or Spirketting							
							" " Shelf	Rudder		3 1/2	3 1/2	-	-	-
							" Stringers in Hold	None	head	-	3 1/2	2 1/2	2	-
							Deck, Lower	None	heel	-	-	-	-	-
							Deck, Upper, how fastened to Beams	Screw bolts with nuts						
							Bulkheads, No. 1 to 4th	Thickness of	4/16					

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Workmanship. Are the lands or laps of the clinchwork in all cases in breadth at least five times diameter of the rivets in double 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? Well finished
Do the fillings between the ribs and plates fill in solid with single pieces, or are they in short lengths of various thicknesses? Solid pieces
Do the holes for rivetting plate to frames, lining pieces, or plate to plate, &c., conform well to each other? Yes generally 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 only

Keel & chain lower masts and the bowsprit of iron (Sketch attached)
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 .
2	Fore Sails,	Tested to 22 3/4 tons	210	1 1/8	3
2	Fore Top Sails,	Chain	75	4 1/2	10.0
1	Fore Topmast Stay Sails,	Hempen Stream Cable	60	5 1/8	8.2
1	Main Sails,	Hawser Chain	80	7 1/2	4.0
2	Main Top Sails,	Towlines	75	4 1/2	1.3
and others as usual		Warp	75	4 1/2	1.0
		All of <u>good</u> quality.			

Her Standing and Running Rigging Lowie Thompson sufficient in size and good in quality.

She has one Long Boat and one other

The present state of the Windlass is fine Capstan Winch and Rudder of Pumps 2 Main & 2 Bilge Metal

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>Built under</u>
	2nd.	On the plating during the progress of rivetting	<u>Special Survey</u>
	3rd.	When the beams were in and fastened, and before the decks were laid	<u>from June 18th 1866</u>
	4th.	When the ship was complete, and before the plating was finally coated	<u>to the present</u>
	5th.	After the ship was launched	<u>date</u>

Seet House
x 26 ft long
14 ft 6 in broad base end.
13 ft 6 in after end.

The Main Hatch is 12 ft 7 in long and has strong Iron Cornings and an angle Iron Beam 3 ft 6 in from the fore side of hatch. The lower beams are also framed in this Hatchway. She has a Seet House abaft the Main Mast to about 7 ft 6 in from the stempost & a short raised app of ditto (7 ft 6 in to Post) 2 ft 3 1/2 in high - it cannot properly be called a Breach as the Main Seet runs fore & aft the ship. The Windlass is Greenheart

The testing certificates of Anchors & Chain cables, have been produced, issued from the Sunderland, and Rotherton public testing machines, the former signed by Mr. John Thompson, and the latter by Mr. W. H. Reade

James Sibun

In what manner are the surfaces preserved from oxidation? Red paint & cement

I am of opinion this Vessel should be classed A I

Senhouse Martindale

The amount of the Fee£ 3 : .. : .. is received by me,

Order No. 18673 Special£ 12 : 16 : ..

Certificate (if required)£ " : " : "

Committee's Minute 9th October 1866

Character assigned A I

I am of opinion this Ship built of iron is eligible for Classification as second class ship.