

IRON SHIPS.

No. 2113 Survey held at Bristol Date 9th April 1857

on the Iron Steam Barge "Clifton" Master E Barron

Tonnage Gross 446 Engine Room 143 Register 303 Built at Bristol

When Built March 1857 By whom built Hotchett & Co. Owners J Edwards & Co.

Port belonging to Bristol Destined Voyage _____

Surveyed Afloat or in Dry Dock During the Building

Length aloft	Feet.	Inches.	Extreme Breadth	Feet.	Inches.	Depth from Beam to top of Floor	Feet.	Inches.	Power of Engines	Horse No.
158	6		22	6		13	0			
Distance between Floors amidships	1	4				Stem, if bar iron, moulding and thickness	7	2 1/2		
" " " forward and aft	1	4				" if plate iron, breadth and thickness				
" " Ribs amidships	1	4				Stern-post, if bar iron, moulding and thickness	7	4 1/2		
" " " forward and aft	1	4				" if plate iron, breadth and thickness				
Floors, Size of Angle Iron, and No. / at						Keel, if bar iron, depth and thickness	7	2 1/2		
bottom of Floor Plate	3 3/4	2 3/4	7/16			" if plate iron, breadth and thickness				
" depth & thickness of Plate at mid line	14		7/16			Garboard Plates, thickness				
" " " at turn of bilge	6					" to bilge				
" Size of Reversed Angle Iron, and No. 2 at top of Floor Plate	2 3/4	2 1/4	3/8			Bilge				
Ribs, Size of Angle Iron, single or double	3 3/4	2 3/4	7/16			" to Wales				
" " Reversed Iron, if to every frame	2 3/4	2 1/4	3/8			Wales				
or every alternate frame						Topsides				
Beams, Deck (N ^o . 22) double or single	3	2 1/2	5/16			Sheerstrakes				
Angle Iron						Planksheers				
" depth & thickness of plate amidships	7		7/16			Gunwale Plate or Stringer				
" " double or single Angle Iron,						Waterway				
on lower edge						Deck				
" average space between						Ceiling in flat				
" if wood (N ^o .) sided & moulded						Bilge Planks inside				
Hold, (N ^o . 36) double or single	3	2 1/2	5/16			Ceiling from Bilge to Clamps				
Angle Iron						Hold Beam Clamps				
" depth & thickness of plate amidships	7		7/16			" " Shelf				
" " double or single Angle Iron,						" " Stringers				
on lower edge						Ceiling between Decks				
" average space between						Stringers				
" if wood (N ^o .) sided & moulded						Deck Beam Clamps				
Paddle, wood, sided and moulded						" " Shelf				
or if Iron, size of Plate						Stringers in Hold				
Engine						Deck, Lower				
Keelson, wood, sided & moulded, iron, size of	12		7/16							
plate, if Box, give sketch & dimensions										
" Side or Bilge	4	3	3/8							
" Number										
Transoms, material										
Knight-heads										
Hawse Timbers										
The Ribs extend in one length from										
The reverse angle irons on the floors extend in one length across the middle line from										
" " " on the ribs										
Keelson, if wood, length of scarp										
Plates, Garboard, double or single rivetted to keel, with rivets (1/4 ins.) diameter averaging (3/4 ins.) from centre to centre of rivet.										
" edges from Garboards to turn of bilge, worked carvel with a lining piece (3/4 in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/4 ins.) from centre to centre of rivets.										
" butts from Garboards to turn of bilge, worked carvel with a lining piece (9/16) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/4 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 wales, worked carvel with a lining piece () thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/4 ins.) from centre to centre of rivets.										
" butts from bilge to wales, worked carvel with a lining piece (9/16) thick, double or single rivetted; rivets (9/4 in.) diameter, averaging (2 1/4 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? no										
" edges of wales and to planksheers, worked carvel with a lining piece () thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter averaging (2 1/4 ins.) from centre to centre of rivets.										
Planksheer, how secured to the plating of the sides										
Waterway " " planksheer and to the Beams										
Side trussing breadth and thickness of plates										
Deck trussing " " " 10 in - 8/16										
Deck Beams, how secured to the side										
Hold " " "										
Paddle " " "										
No. of breasthooks										
What description of iron is used for the angle iron and bar iron in the vessel?										

1325 *Ln*

Workmanship. Are the lands or laps of the clenchwork in all cases sufficiently wide to take the rivets and support the strain on them? *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 all solid with sliver pieces, or are they in short lengths? *Solid*
 Do the holes for rivetting plate to lining piece, or plate to plate, &c., answer 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*
 Was the plating caulked internally in the wake of the frames or ribs? *no*

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 .	
/	Fore Sails,	80	Chain Hawser	2 1/4		
/	Fore Top Sails,	200	Chain	1 1/4	3	Bower, 17 - 15 Portus - 17 -
/	Fore Topmast Stay Sails,	90	Hempen Stream Cable	8 1/2	1	Stream, 6 - -
/	Main Sails,	90	Hawser	5 1/2	2	Kedge, 1 - 3 - 0 - 1 - 2 - 0
	Main Top Sails,	90	Towlines	2 - 4		
	and <i>fit all new</i>		Warp			
			All of <i>good</i> quality.			

Her Standing and Running Rigging *good* sufficient in size and *good* in quality.

She has *one* Long Boat and *three others*

The present state of the Windlass is *patent* Capstan *bricks* and Rudder *good* Pumps *2*

GENERAL REMARKS.

Statement and date of repairs; extent of corrosion (if any) both internally and externally; and condition of rivets.

Specially Surveyed during the building. Has plates above the Beams on each side, the Hatchways all fore and aft; also diagonal plates riveted to the upper side of the deck beams and stringer plates. The workmanship and materials of the best description.

The chain cables have sustained a tension of twenty five tons

In what manner are the surfaces preserved from oxidation? *paint during the building*

I am of opinion this Vessel should be classed *12A1*

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

Special £ 22 : 6 : -

Certificate (if required) £ : :

Committee's Minute *17 April 1857*

Character assigned *1 for 12 Years*

I see no objection to the above



16 April 1857

Lloyd's Register Foundation