

Last Survey 3618
3567 Iron Ships.
IRON SHIPS.
(Report of C. Wright)

Rev 27/5/64

No. *898* Survey held at *Sunderland* Date *May 21st* 18*64*
 on the *Steam Steamer "James" Master*

Tonnage Gross *1376¹³/₁₀₀* Engine Room *286²⁷/₁₀₀* Register *1089⁸⁵/₁₀₀* Built at *Sunderland*
2nd under tonnage died 898

When Built *1863-4* Launched *April 7th 1864* By whom built *Messrs Oswald & Co*

Owners *British Colonial Steam Navigation Co* belonging to *London* Destined Voyage *Montreal*

If Surveyed Afloat or in Dry Dock *while building* Classed *A*
4.64

Length aft Feet. Inches. Extreme Breadth Feet. Inches. Depth from top of Upper Deck } Feet. Inches. Beam to top of Floor } Power of Engines Horse.

	Inches in Ships.		Inches required per Rule.		Inches. 16ths. Inches. 16ths. Inches. 16ths. 16ths. In Ship. In Ship. per Rule. per Rule.	Stem, if bar iron, moulding and thickness " if plate iron, breadth and thickness Stern-post, if bar iron, moulding and thickness " " if plate iron, breadth and thickness Keel, if bar iron, depth and thickness..... " if plate iron, breadth and thickness Garboard Plates, Breadth and thickness From Garboard to upper part of Bilge..... From upper part of Bilge to Sheerstrakes..... Sheerstrakes, Breadth and thickness Butt Straps to outside plating, Breadth and thickness Planksheers Gunwale Plate or Stringer on ends of Up. Dk Beams Angle Iron on ditto..... Diagonal Tie Plates on Beams Waterway Deck..... Ceiling in Hold Ceiling betwixt Decks Beam Clamps or Spirketting " Shelf " Stringer Plates on ends of Hold or Lower Dk Beams Ceiling between Decks Stringer or Tie Plates outside Hatchways Deck Beam Clamps or Spirketting.. " Shelf Stringers in Hold Deck, Lower Deck, Upper, how fastened to Beams Bulkheads, N°. Thickness of
	Inches. In Ship.	Inches. In Ship.	Inches. 16ths. per Rule.	Inches. 16ths. per Rule.		
Distance of Frames or Ribs from moulding } edge to moulding edge, all fore and aft }						
Floors, Size of Angle Iron, and No. at } bottom of Floor Plate..... }						
" depth and thickness of Floor Plate at } mid line }						
" depth and thickness of Floor Plate at } Bilge Keelson }						
" Size of Reversed Angle Iron, and } No. at top of Floor Plate.. }						
Frames, Size of Angle Iron, single or double..						
" " Reversed Iron, if to every frame } or every frame..... }						
Beams, Deck (N°.) double Angle Iron, } Plate, or Bulb Iron..... }						
" " double or single Angle Iron, } on edge..... }						
" " average space between						
" " if wood (N°.) sided & moulded						
" Hold, or Lower Deck (N°.) } double Angle Iron, Plate, or Bulb Iron }						
" " double or single Angle Iron } on edge..... }						
" " average space between						
" " if wood (N°.) sided & moulded						
" Paddle, wood, sided and moulded, or } if Iron, size of Plate						
" Engine " " " "						
Keelson, single plate, box, or intercostal						
" Size of Plates						
" Size of Angle Irons						
Ditto Bilge (No.)						

Transoms, material _____ or, if none, in what manner compensated for. " how secured to the sides of the ship _____

Knight-heads, and Hawse Timbers _____ " size of vertical angle iron and their distance apart _____

The Frames or Ribs extend in one length from _____ to _____ rivetted through plates with (in.) rivets, about () apart.

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

" " " on the frames " " " from _____ to _____

Keelson, how are the various lengths of plates or angle irons connected? _____

Plates, Garboard, double or single rivetted to keel & at upper edge, with rivets (ins.) diameter averaging (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 (in.) diameter, averaging (ins.) 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 (in.) diameter, averaging (ins) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? _____

" Edges from bilge to sheerstrake, worked carvel with a lining piece () thick, or clencher, double or single rivetted; rivets (in.) diameter, averaging (in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? _____

" Edge of Sheerstrake, double or single rivetted? _____

" Butts from bilge to planksheers, worked carvel with a lining piece () thick, double or single rivetted; rivets (in.) diameter averaging (ins.) from centre to centre of rivets. Breadth of laps in double rivetting () Breadth of laps in single rivetting ()

Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted? _____

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

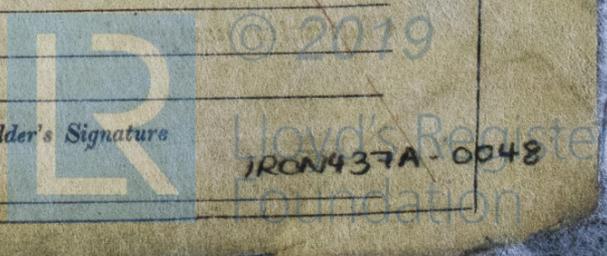
Deck Beams, how secured to the side? _____

Hold or Lower Deck " _____

Paddle " _____

No. of breasthooks _____ crutches _____ how are pointers compensated? _____

What description of iron is used for the angle iron and plate iron in the vessel? _____ Builder's Signature _____



3618 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? _____
 Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? _____
 Do the fillings between the ribs and plates fill in solid with single pieces, or are they in short lengths of various thicknesses? _____
 Do the holes for rivetting plate to frames, lining pieces, or plate to plate, &c., conform well to each other? _____ and are the rivet holes well and sufficiently countersunk in the outer plate? _____
 Are there any rivets which either break into or have been put through the seams or butts of the plating? _____

Her Masts, Yards, &c., are in good condition, and sufficient in size and length. ** Testing Cert returned*
 She has SAILS. *Vice Wrote announced*
 CABLES, &c. ANCHORS, and their weights.

N ^o .	SAILS	CABLES, &c.		ANCHORS, and their weights.	
		Fathoms.	Inches.	N ^o .	Weight.
<i>One</i>	Fore Sails,	Chain	300 1 1/16	<i>* Bower, Rodger's patent</i>	1 27.3.19
	Fore Top Sails,	Hempen Stream Cable	90 10 1/2	<i>sr. - - -</i>	1 23.0.17
<i>full</i>	Fore Topmast Stay Sails,	Hawser <i>Chain</i>	90 7 1/8	<i>* Stream,</i>	1 11.1.16
<i>Suit</i>	Main Sails,	Towlines	90 8 1/2		
	Main Top Sails,	Warp	90 5	<i>* Kedge,</i>	1 5.2.14
	and <i>spare sails as usual</i>	All of <u>good</u> quality.			1 2.3.7

Her Standing and Running Rigging off the sheep sufficient in size and good in quality.
 She has Two life Long Boats and three others
 The present state of the Windlass is good Capstan Steam Winches 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 _____
 - 2nd. On the plating during the progress of rivetting _____
 - 3rd. When the beams were in and fastened, and before the decks were laid _____
 - 4th. When the ship was complete, and before the plating was finally coated _____
 - 5th. After the ship was launched _____

The erections on the Spar deck sanctioned by the Secretary's letter of the 12th Instant have now been completed - the fore house being 23 x 15 and the after one 19 x 13.

The Fore and Main masts are of iron: the plates are 1/16" thick - the butt straps being the same thickness and double rivetted. The edges are single rivetted and they have three longitudinal angle irons 3 x 3 x 1/16".

The Engineer's certificate is forwarded herewith.

The doubling of the Spar deck sheer stake in this ship is additional work as required by the Committee: the doubling extends 3/4 the length of ship amidships - the outer plates being 48 x 1/16 and the inner plates 24 x 1/16. The doubling of the Main sheer stake also extends 3/4 the length of ship amidships - the outer plates being 60 x 1/16 and the inner plates 36 x 1/16, as per sketch forwarded.

The testing certificates of the Chain cables are herewith forwarded, and I beg respectfully to call the Committee's attention to those forwarded herewith for the Bower Anchors, which appear to be guaranteed only.

In what manner are the surfaces preserved from oxidation?

I am of opinion this Vessel should be classed A subject to the approval of the Committee of the Certificate and for the Bower Anchors

The amount of the Fee£ - : - : is received by me,
 Special£ - : - :
 Certificate (if required)£ - : - :

Benj. Marsden

Committee's Minute 27th May 1864

Character assigned A 1 *W.H.*

