

IRON SHIPS.

Request for S.S. No. 319 Rec'd 17/64

No. 2207 Survey held at Glasgow Date July 13th 1864
 on the Ship County of Renfrew Master H. Jenkins
 Tonnage Gross 709.31 Engine Room Register Built at Glasgow
 When Built 1864 Launched 23rd June 1864 By whom built C. Cammell & Co
 Owners C. of Great Port belonging to Glasgow Destined Voyage Sourabaya
 If Surveyed Afloat or in Dry Dock whilst 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.
.....	<u>76.0</u>	.....	<u>30</u>	.....	<u>19.6</u>	.....	<u> </u>
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft	Inches in Ships.	Inches required per Rule.	Inches in Ships.	Inches required per Rule.	Inches in Ships.	16ths. required per Rule.	Inches in Ships.
.....	<u>21</u>	<u>21</u>	<u>21</u>	<u>21</u>	<u>21</u>	<u>21</u>	<u>21</u>
Floors, Size of Angle Iron, and No. at bottom of Floor Plate	Inches in Ship.	Inches in Ship.	16ths. in Ship.	Inches. required per Rule.	Inches. required per Rule.	16ths. required per Rule.	Inches. required per Rule.
.....	<u>4</u>	<u>3</u>	<u>10</u>	<u>4</u>	<u>3</u>	<u>10</u>	<u>3</u>
" 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, to every frame of every other frame	.....	.....	.....	.....	.....	.....	.....
Beams, Deck (N ^o <u>15</u>) double angle iron, Plate, or Bulb Iron	.....	.....	.....	.....	.....	.....	.....
" double or single Angle Iron, on upper edge	.....	.....	.....	.....	.....	.....	.....
" average space between	.....	.....	.....	.....	.....	.....	.....
" if wood (N ^o) sided & moulded	.....	.....	.....	.....	.....	.....	.....
" Hold, or Lower Deck (N ^o <u>15</u>) double angle iron, Plate, or Bulb Iron	.....	.....	.....	.....	.....	.....	.....
" double or single Angle Iron on upper edge	.....	.....	.....	.....	.....	.....	.....
" average space between	.....	.....	.....	.....	.....	.....	.....
" if wood (N ^o) 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. <u>two</u>)	.....	.....	.....	.....	.....	.....	.....

Transoms, material Iron plates, if none, in what manner compensated for. how secured to the sides of the ship Riveted between wood

Knight-heads, and Hawse Timbers British Oak & Iron size of vertical angle iron and their distance apart 3 x 3 x 70 30 lbs

The Frames or Ribs extend in one length from Middle line rivetted through plates with ($\frac{3}{4}$ in.) rivets, about (6 in.) apart.

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

 " " " 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 ($\frac{3}{8}$ in.) diameter averaging (1/2 in.) from centre to centre of rivet.

 " Edges from Garboards to upper part of bilge, worked carvel with a lining piece (1/2 in.) thick, or clencher, double or single rivetted; rivets ($\frac{3}{4}$ in.) diameter, averaging (3/2 ins.) from centre to centre of rivets.

 " Butts from Keel to turn of bilge, worked carvel with a lining piece 1/2 in. thick, double or single rivetted; rivets ($\frac{3}{4}$ in.) diameter, averaging (3/2 ins.) 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 sheerstrake, worked carvel with a lining piece () thick, or clencher, double or single rivetted; rivets ($\frac{3}{4}$ in.) diameter, averaging (3/2 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? No

 " Edge of Sheerstrake, double or single rivetted? throughout

 " Butts from bilge to planksheers, worked carvel with a lining piece 1/2 in. thick, double or single rivetted; rivets ($\frac{3}{4}$ in.) diameter averaging (3 ins.) from centre to centre of rivets. Breadth of laps in double rivetting (1/2) Breadth of laps in single rivetting ()

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

Planksheer, how secured to the plating of the sides { Explain by sketch

Waterway " " planksheer and to the Beams { if necessary.

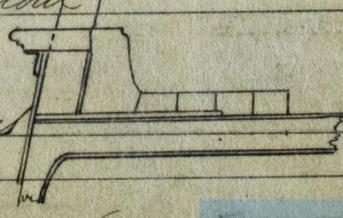
Deck Beams, how secured to the side? Moulded Iron rivetted to frames

Hold or Lower Deck "

Paddle "

No. of breasthooks four crutches four how are pointers compensated? all stinders run through

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



3655 down

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 corners of Butts

Her Masts, Yards, &c., are of Iron and Wood condition, and sufficient in size and length.

She has SAILS.

CABLES, &c.

ANCHORS, and their weights.

N ^o .		Fathoms.	Inches.	N ^o .	Weight.
<u>2</u>	Fore Sails,	<u>Tested to 145 fms</u>	<u>1 1/2</u>	<u>3</u>	<u>25.10</u>
	Fore Top Sails,	<u>Hempen Stream Cable</u>	<u>90</u>	<u>1</u>	<u>7.20</u>
	Fore Topmast Stay Sails,	<u>Hawser</u>	<u>90</u>		
	Main Sails,	<u>Towlines</u>	<u>90</u>		
	Main Top Sails,	<u>Warp</u>	<u>90</u>		
	and	<u>All of Good quality.</u>			

Her Standing and Running Rigging Gal? Hemp sufficient in size and Good in quality.

She has One Long Boat and two Sheers

The present state of the Windlass is new Capstan new and Rudder new Pumps new and efficient

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 Built under special
 - 2nd. On the plating during the progress of rivetting Survey and seen on the following date
 - 3rd. When the beams were in and fastened, and before the decks were laid Dec 18 (1863) Aug 8, 13, 22, Sep 2,
 - 4th. When the ship was complete, and before the plating was finally coated 4, 8, 10, 12, 19, 22, 26 March 4, 9, 12
 - 5th. After the ship was launched 17, 26, 29, 30 April 6, 8, 18, 21, 26, 30 May 4, 9, 13, 17, 23, 27, June 3, 7, 9, 13, 20, 22, 23 July 1, 13. (1864)

Butt Straps to Gunwale Plate are treble Rivetted. Butt Straps to Sheerstrake are extended over two frames and treble Rivetted. Butt Straps to outside plating increased to 10 lbs in width and Chain Rivetted, Jettied with a Wash Plate midway between Middle line and Ridge keelson.

The Gross Tonnage of the vessel is as follows, viz. 677.89 Plunder Deck, 29.46 Raised Quarter Deck, 1.96 Store Room. which causes the outside plating to be thin as compared with the Rules; enclosed is a letter from the Builders respecting the same and beg to leave the passing for the favourable consideration of the Committee

In what manner are the surfaces preserved from oxidation? Flat of Bottom with Portland Cement, reeve with Red Lead and Patent Paint

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

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

Special£ 35: 9: Certificate (if required)£

Committee's Minute 19th July 18 64

Character assigned A MT

The Committee having ruled in a former similar case that the tonnage represented in such books from the line of the main gunwale up should be deducted from the Gross tonnage this vessel is eligible to be compared with 6 to 700 ton scale for the class. The chain cable is 1 1/2 inches diameter.

Vertical signature: Certificate
Large signature: A. Darling