2967

Report for G.S. No. 241

IRON SHIPS.

Rec 27/11/62

No. 1072 **Survey held at** Glasgow **Date** Nov. 21st **18**62
on the S "Hanibal" **Master** C. S. Richardson

Tonnage Gross — **Engine Room** — **Register** 1197.89 **Built at** Glasgow
Launched Octr 24/62
When Built 1862 **By whom built** Tods. Smith & Chapman **Owners** W H Dixon
Port belonging to Liverpool **Destined Voyage** India
If Surveyed Afloat or in Dry Dock while building

PLANS CASE

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.)
208	34 6	22 9	—

	Inches in Ship	Inches in Ship	16ths In Ship	Inches required per Rule	Inches required per Rule	16ths required per Rule
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft	18			18		
Floors, Size of Angle Iron, and No. One at bottom of Floor Plate	5	3	9/16	5	3	9/16
„ depth and thickness of Floor Plate at mid line		23	11/16		22¾	11/16
„ depth and thickness of Floor Plate at Bilge Keelson		6	11/16		5	11/16
„ Size of Reversed Angle Iron, and No. 1&2 at top of Floor Plate	3½	3	8/16	3½	3	8/16
Frames, Size of Angle Iron, single ~~or double~~	5	3	9/16	5	3	9/16
„ Reversed Iron, if to every frame or every other frame 1&2 (at keelsons & H. Stringer; to Hold Beams 1&2)	3½	3	8/16	3½	3	8/16
Beams, Deck (No. 63) ~~double Angle Iron or~~ Bulb Iron with double Angle Iron on top	3½	3	7/16	3	3	6/16
„ „ depth & thickness of plate amidships		8½	9/16		8½	9/16
„ „ double or single Angle Iron on lower edge Bulb						
„ „ average space between	3 feet			3 feet		
„ „ if wood (No.) sided & moulded						
„ Hold, or Lower Deck (No. 58) ~~double Angle Iron or~~ Bulb Iron with double Angle Iron on top	3½	3	7/16	3	3	6/16
„ „ depth & thickness of plate amidships		8½	9/16		8½	9/16
„ „ double or single Angle Iron on lower edge						
„ „ average space between	3 feet			3 feet		
„ „ ~~if wood (No.) sided & moulded~~	„	„	„	„	„	„
„ ~~Paddle, wood, sided and moulded or if Iron, size of Plate~~	„	„	„	„	„	„
„ Engine „ „ „ „	„	„	„	„	„	„
Keelson, ~~wood~~ Centre sided & moulded, iron, size of plate, ~~if~~ Box, give sketch & dimensions	5	4½	9/16		4½	9/16
		15	10/16 sides			
		12	11/16 top			
„ Side ~~or~~ Bilge Intercostal plate		18	11/16			
„ Number 4 angle irons	5	4½	9/16	5	4½	9/16

	Description of Iron / Material	Inches In Ship	16ths In Ship	Inches required per Rule	16ths required per Rule
Stem, if bar iron, moulding and thickness		8½	3	8½	3
„ ~~if plate iron, breadth and thickness~~					
Stern-post, if bar iron, moulding and thickness		8½	3	8½	3
„ „ ~~if plate iron, breadth and thickness~~					
Keel, if bar iron, depth and thickness		8½	3	8½	3
„ ~~if plate iron, breadth and thickness~~					
Garboard Plates, thickness			14/16		14/16
From Garboard to upper part of Bilge			12/16		12/16
From upper part of Bilge to Sheerstrakes	—	—	11/16		11/16
Sheerstrakes		13.	13/16		12/16
Breadth & thickness of Butt Straps to outside plating	9½ & 9	14.	12.	10/16	
Planksheers		None			
Gunwale Plate or Stringer on ends of Up. Dk Beams	— — —	36	11/16	25½ × 11/16	
Angle Iron on ditto		5	4½	9/16	
Waterway	Gutter as per sketch				
Deck	Yellow pine	4		4	
Ceiling in Hold	Red pine	2½			
Ceiling betwixt Decks	Battened	„	„		
Beam Clamps		„	„		
„ Shelf		„	„		
„ Stringer Plates on ends of Hold or Lower Dk Beams	— — —	25½	11/16	25½ × 11/16	
	Angle iron	5	4½	9/16	
Ceiling between Decks					
Stringer or Tie Plates outside Hatchways		12¾	11/16	12¾	11/16
Deck Beam Clamps		„	„		
„ „ Shelf		„	„		
Stringers in Hold	1 and others as shown in sketch	5	4½	9/16	
Deck, Lower	Yellow pine	3½			

Deck, Upper, how fastened to Beams Nuts and Screws

Transoms, material Plate or, if none, in what manner compensated for.
Knight-heads „ Iron frame } are they free from defects?
Hawse Timbers „ — „ —

Bulkheads, No. Two Thickness of 7/16
„ how secured to the sides of the ship Rivetted to single frame and bracketed
„ size of vertical angle iron and their distance apart 3½ × 3 × 8/16. 30 inches

The Frames or Ribs extend in one length from Keel to Gunwale rivetted through plates with (7/8 in.) rivets, about (7) apart.
The reverse angle irons on the floors extend ~~in one length~~ across the middle line from } to Hold Beam Stringer
„ „ „ on the frames „ „ „ from } to and alternately to Gunwale
Keelson, how are the various lengths of plates or angle irons connected? Rivetted on top of floors
Plates, Garboard, double ~~or single~~ rivetted to keel & at upper edge, with rivets (1/4 ins.) diameter averaging (4½ × 3½ in.) from centre to centre of rivet.
„ Edges from Garboards to upper part of bilge, worked ~~carvel with a lining piece~~ (in.) ~~thick, or~~ clincher, double ~~or single~~ rivetted; rivets (7/8 in.) diameter, averaging (3½ ins.) from centre to centre of rivets.
„ Butts from Keel to turn of bilge, worked carvel with a lining piece 14/16 12/16 thick, double ~~or single~~ rivetted; rivets (1/8 in.) diameter. averaging (3½ 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~~ clincher ( ) ~~thick~~, double ~~or single~~ rivetted; rivets (7/8 in.) diameter, averaging (3½ 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 (14/16) thick, or ~~clincher~~, double ~~or single~~ rivetted; rivets (7/8 in.) diameter averaging (3½ ins.) from centre to centre of rivets. Breadth of laps in double rivetting (12/16 × 13/16; 5 times Diam. of Rivets) Breadth of laps in single rivetting (—)

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

~~Side trussing~~ ~~breadth and thickness of plates~~ how secured? Four pairs of diagonal plates 12¾ × 11/16
Deck trussing „ „ „ ? extending from Gunwale plate to [illegible]
Deck Beams, how secured to the side? Welded knees 21½ Rivetted to frames
Hold or Lower Deck „ do do
Paddle „ —
No. of breasthooks Five crutches Five how are pointers compensated? round stern framed complete and all stringers run through
What description of iron is used for the angle iron and plate iron in the vessel? Consett plate frames & keelsons "Newport" "Scotland bar"

Builder's Signature
Smith & Rodger

IRON436-0046

2296

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 fay 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? *Yes, a few in corners of Butts*

Her Masts, Yards, &c., are in *good* condition, and sufficient in size and length.

A double suit of Sails

She has SAILS.	No.	CABLES, &c.	Fathoms.	Inches.	ANCHORS, and their weights.	No.	Weight.
		Tested to 55 2/10 tons			*J. S. Rodgers patent*		*41. 0. 13*
Fore Sails,		Chain	*300*	*1 2/16*	Bower,	*3*	*41. 0. 23*
Fore Top Sails,		Hempen Stream Cable	*90*	*11*			*32. 2. 12*
Fore Topmast Stay Sails,		Hawser *Chain*	*80*	*1*	Stream,	*1*	*11. 2. 7*
Main Sails,		Towlines	*90*	*8*			
Main Top Sails,		Warp	*90*	*7 1/2*	Kedge,	*2*	*5. 3. 10*
and		All of *good* quality.					*3. 0. 7*

Her Standing and Running Rigging *Galvd. wire & hemp* sufficient in size and *good* in quality.

She has *one launch 20 ft* Long Boat and *Pinnace 24 feet, Cutter 22 feet and Gig 22 feet*

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

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*
3rd. When the beams were in and fastened, and before the decks were laid *dates Apl. 5. 19 May 1. 7. 12. 20.*
4th. When the ship was complete, and before the plating was finally coated *June 3. 13. 17 July 14 Aug. 1*
5th. After the ship was launched *21. 29 Septr. 10. 15. 20 / 26 Octr. 2. 9. Nov. 21 Nov. 11. 20. 22*

Up to my last visit on this vessel, the 17 June materials and workmanship were satisfactory and the scantlings in accordance with the 12 years grade under the 1000 Ton Scale

Thos. Duke

This vessel is fitted with a full (Poop) and Forecastle. Box Keelson as per Secretary's letter of the 23rd May 1862; between the Stantions on the Upper Deck red pine is fitted flush with the upper part of Sheerstrake; the vessel in every other respect as per accompanying Midship Section

In what manner are the surfaces preserved from oxidation? *red lead and patent paint, inside flat of bottom with Portland Cement*

I am of opinion this Vessel should be classed *12 A 1*

A. Darling

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

Special ....£ *59 : 18 : "*

Certificate (if required) ....£ *Gratis*

Committee's Minute *28th November* 18*62*

Character assigned *A 1 for 12 Years*

I concur in the above recommendation
27 Nov 1862