

See previous Report No. 8609.

IRON SHIPS.

22/12/70

Rev 21/12/70

1870

No. 3580 Survey held at Wingham, Canton Date 29th September

on the Screw Steam Ship "Scotland" Master Winbery

Tonnage under tonnage deck 1354.40 Built at Wingham When built 1868; 1869 Launched 7th September

Ditto of poop 654.25 By whom built John New Owners John New

Ditto of fore-castle 84.83 Deck Houses 113.18

Ditto of engine room 800.24 Port belonging to Faith Destined Voyage Calcutta via Ceylon

Total Register tonnage 2145.45 Register Tonnage 1256.14

Gross Tonnage 2145.45 Port belonging to Faith Destined Voyage Calcutta via Ceylon

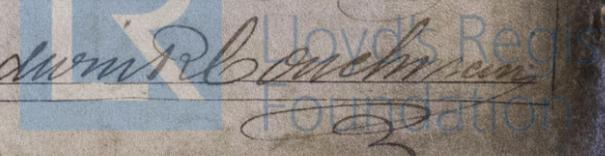
Space 88.99 Surveyed while Building, Afloat, or in Dry Dock White Building

Length aloft	Extreme Breadth	Depth from top of Upper Deck Beam to top of Floor	Power of Engines	No. of Decks
298.0	38.0	24.4	500	Three
(Dimensions of Ship per Register, length 302.9 breadth 34.9 depth 24.6)				
Keel, if bar iron, depth and thickness	11 x 3 1/2	13 x 3		
Stem, if bar iron, moulding and thickness	11 x 3	9 x 3		
Stern-post, if bar iron, moulding and thickness	10 x 4	9 x 6		
Distance of Frames from moulding edge to moulding edge, all fore and aft	21	21		
Frames, Size of Angle Iron, single or double	5 1/2 x 3 1/2	10 x 5	3 1/2 x 9	
Floors, depth and thickness of Floor Plate at mid line	24	11	26 1/2	11
Beams, Deck (No. 42) double Angle Iron, Plate, Tee, or Bulb Iron	9	9	9	9
Keelson, single or double plate, box, or intercostal	16	9	9	15
Transoms, material Iron or, if none, in what manner compensated for.				
Knights-heads, and Hawse Timbers				
The Frames extend in one length from	Keel	to Gunwale		
The reverse angle irons on the floors extend in one length across the middle line from	side	to Main Deck		
Keelson, how are the various lengths of plates or angle irons connected?	Butt Straps double riveted			
Plates, Garboard, double or	at upper edge, with rivets (1 1/4 in.) diameter, averaging (5 1/4 in.) apart.			
Edges from Garboards to upper part of bilge, worked clencher, double or single rivetted; with rivets (3/8 in.) diameter, averaging (3 1/2 in.) apart.				
Butts from Keel to turn of bilge, worked carvel with butt straps (1 1/2 in.) thick, double or single rivetted; with rivets (3/8 in.) diameter, averaging (3 1/2 in.) apart.				
Edges from bilge to sheerstrake, worked carvel with a lining piece () thick, or clencher, double or single rivetted; with rivets (3/8 in.) diameter, averaging (3 1/2 in.) apart.				
Edges of Sheerstrake, double or single rivetted? At upper edge Double rivetted At lower edge Double rivetted				
Butts from bilge to planksheers, worked carvel with butt straps (1 1/2 in.) thick, double or single rivetted; with rivets (3/8 in.) diameter, averaging (3 1/2 in.) apart. Breadth of laps in double rivetting (5 1/4) 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				
Waterway, how secured to the plating of the sides				
Deck Beams, how secured to the side?	Milded Knee Plates rivetted to Frames			
Hold or Lower Deck ditto				
Paddle, how secured to the shaft				
No. of breasthooks	Six	crutches	Five	
What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.?	Best			
Manufacturer's name or trade mark	James L. & B. Walker	Plates	Sheelton	Malleable Iron Co.

We certify that the above is a correct description of the several particulars therein given.

Builder's Signature John New Surveyor's Signature Edmund Rouchman

10447-0414



8609 Iron

Workmanship. Are the lands or laps of the clenwork in all cases in breadth at least five and a half times the diameter of the rivets in double rivetted edges and butts, and at least three and a quarter 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, butt straps, 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? None

Her Masts, Bowsprit, Yards, &c., are in good condition, and sufficient in size and length. (If they are of Iron or Steel give the Scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, showing the number of Plates and Angle Irons, mode of rivetting, quality of Materials, and if stamped with Maker's name.)

Bowsprit and lower Masts of Iron. - Bowsprit in two strakes 7/16" thick, edges worked carvel with a lining piece 10 x 7/16" and double riveted. Butts treble riveted. Fore and Main Masts in four strakes of plating 3/16" thick, tapered to 1/16" ahead, and 1/16" at heel, edges worked clunger and double riveted. Butts treble riveted, inside strakes doubled in way of wedging. - All other spars of Pitch Pine.

N ^o .	She has SAILS.	CABLES, &c.	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	N ^o .	Weight. Ex. Stock.	Test as per Certificate.	Weight req'd per Aule.	Test req'd per Rule.
	Fore Sails,	Chain	300	1 7/8	63" 5.	1 1/2	5970	Bowers	1	34.0.10	31.12.0.0	32.	30 7/10
	Fore Top Sails,	Hempen Stream Cable	90	8		7		Stream	1	30.2.10	29.1.2.0	24.0.23	26 1/20
	Fore Topmast Stay Sails	Hawser	95	1 7/8		1 1/2		Kedges	1	13.2.20		13.0.0	
	Main Sails,	Towlines	90	9		11			1	6.3.2		6.2.0	
	Main Top Sails,	Warp	90	4 1/2					1	3.1.10		3.1.0	
	and	All of <u>good</u> quality.	90	6									

Her Standing and Running Rigging Wire & Hempen sufficient in size and good in quality.
 She has Two Long Boats and Two Life Boats
 The present state of the Windlass is efficient Capstan efficient and Rudder efficient Pumps 3 Hand & 6 Steam.

Order for Special Survey, DATES of 1st. On the several parts of the frame, when in place, and before the plating was wrought Speciallly
 see Secretary's letter 2nd. On the plating during the progress of rivetting Surveyed while building
 Date 20th October 1868 while building 3rd. When the beams were in and fastened, and before the decks were laid from 24th June 1868
 Order for Ordinary Survey as per 4th. When the ship was complete, and before the plating was finally coated to 29th September 1869
 No. ✓ Section 18. 5th. After the ship was launched

State if she has a Spar Deck ✓ Poop ✓ Top Gallant ✓ Forecastle 64 feet long.

General Remarks, Visits. - 24th June, 19th & 27th August, 26th October, 28th November, & 15th December 1868, & 4th January, 12th February, 20th March, 5th April, 14th May, & 9th August 1869, & 9th March, 9th, 15th, 23rd, & 28th 29th September 1870.

This Vessel was designed and constructed on the basis of the Old Rules with a view to Class A with a Spar Deck. - Being fitted with a Forecastle on the Spar Deck 64 feet long, the Scantlings of the Vessel were considerably increased from that required by the Rules, and in addition she is fitted with a Box Wakeway on Spar Deck, and a Spirketting plate to the Lower Deck Beams; all in order to enable her to carry the addition of the Forecastle. - The Sheer of the Vessel is so arranged as to keep the Forecastle as low down as possible. - The Vessel is well and faithfully built, the workmanship being of the very best description. - I have to refer the Committee to a correspondence respecting the classification of this Vessel, when the scantlings and arrangements were submitted for approval, as contained in the Secretary's letters dated 15th May, 4th June & 20th October 1868. - I have to add that this Vessel was seen by the Visitation Committee on their recent visit to this District, and their attention specially drawn thereto. -

I herewith append letter received from the Builder & Owner, and respectfully leave the classification of the Vessel to the favorable consideration of the Committee. -

In what manner are the surfaces preserved from oxidation? Inside Painted in flat & painted above with three coats of Paint.
 Ditto ditto Outside Five coats on Bottom, including one of Patent Composition & three coats of Paint above.

I am of opinion this Vessel should be Classed See annexed Report
 The amount of the Fee £ 5 : 0 : 0 is not received by me, X
 Special £ 46 : 8 : 6
 Certificate (if required) £ 0 : 0 : 0

Committee's Minute 23rd Dec 1870
29th "

Character assigned 100 A 1 A 4 C P.
 Travelling Expenses charged £ 4 : 10/- not paid.
 Genl Commr in Min: 12 Jan 1871
1 asterisk "Spar Decked"

