

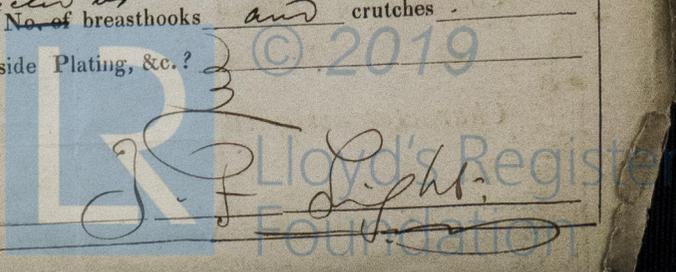
IRON SHIPS.

Run 24/6/69

No. 2980 Survey held at Glasgow Date 17th May 1869
 on the Screen Steamer "Attalo" Master Jno Bell
 Tonnage under tonnage deck 321.45 Built at Glasgow When built 1869 Launched 8th June 1869
 Ditto of quarter deck 30.3
 Ditto of poop, forecabin, or other erections on upper deck 11.23
 Ditto of spar deck 21.20 By whom built Wingate Owners Jno Bell
 Ditto of engine room 136.03 Port belonging to Glasgow Destined Voyage Mediterranean
 Gross tonnage, less crew space 341.18
 Total Register tonnage, less out on beam 205.15 If Surveyed while Building, Afloat, or in Dry Dock On the building Slip and Afloat

Length aloft		Extreme Breadth		Depth from top of Upper Deck Beam to top of Floor		Power of Engines		No. of Decks		
170		31		13		20		One Complete		
Dimensions of Ship per Register, length <u>173</u> breadth <u>31</u> depth <u>13</u>										
Keel, if bar iron, depth and thickness	Inches in Ship		Inches required per Rule for 200 tons Scale							
Keel, if plate iron, breadth and thickness	6 1/2 x 2 1/4		6 1/2 x 2 1/4							
Stem, if bar iron, moulding and thickness	6 1/2 x 2 1/4		6 1/2 x 2 1/4							
Stem, if plate iron, breadth and thickness	6 1/2 x 2 1/4		6 1/2 x 2 1/4							
Stern-post, if bar iron, moulding and thickness	6 1/2 x 4 1/2		6 1/2 x 4 1/2							
Stern-post, if plate iron, breadth and thickness	6 1/2 x 4 1/2		6 1/2 x 4 1/2							
Distance of Frames from moulding edge to moulding edge, all fore and aft	21		21							
Frames, Size of Angle Iron, single or double	3 1/2 x 2 1/2		3 1/4 x 2 3/4		6/16					
Reversed Iron, if to every frame	2 1/2 x 2 1/2		2 1/2 x 2 1/2		5/16					
Floors, depth and thickness of Floor Plate at mid line	15 1/2 x 7/16		15 x 7/16							
Ditto ditto at Bilge Keelson	6 x 7/16		6 x 7/16							
Size of Reversed Angle Iron, and No. at top of Floor Plate	2 1/2 x 2 1/2		2 1/2 x 2 1/2		5/16					
Beams, Deck (No. of double Angle Iron, Plate, Tee, or Bulb Iron)	5 x 3 x 6/16		5 1/2 x 5/16							
Double or single Angle Iron on edge	4, 2		4, 2							
Average space between	4, 2		4, 2							
Hold, or Lower Deck (No. of double Angle, Tee, Plate, or Bulb Iron)	5, 3		5 1/2 x 5/16							
Double or single Angle Iron on edge	4, 2		4, 2							
Average space between	4, 2		4, 2							
Paddle, sided and moulded, thickness of Plate size of Angle Iron	4, 2		4, 2							
Engine	15 1/2 x 7/16		15 x 7/16							
Keelson, single or double plate, box, or intercostal	6 x 6/16		5 1/2 x 5/16							
Size of Plates	6 x 6/16		5 1/2 x 5/16							
Size of Angle Irons	3 1/2 x 3		3 1/2 x 3							
Sides, single or double, plate, box, or intercostal	3 1/2 x 3		3 1/2 x 3							
Bilge (No. of single, or double, plate, or box angle)	3 1/2 x 3		3 1/2 x 3							
Transoms, material or, if none, in what manner compensated for	Iron plates and frames									
Knight-heads, and Hawse Timbers	Iron plates and frames									
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 side									
Keelson, how are the various lengths of plates or angle irons connected?	By butt straps and angle iron shipped.									
Plates, Garboard, double or rivetted to keel, double or	at upper edge, with rivets (5/16 in.) diameter, averaging (3 1/2 in.) apart.									
Edges from Garboards to upper part of bilge, worked clencher, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 1/2 ins.) apart.	Do the butt straps lap over and rivet through the lands of the strake below? NO.									
Butts from Keel to turn of bilge, worked carvel with butt straps (3/16 x 8/16) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 1/2 ins.) apart.	Do the butt straps 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; with rivets (3/4 in.) diameter, averaging (2 1/2 in.) apart.	Do the butt straps lap over and rivet through the lands of the strake below? NO.									
Edges of Sheerstrake, double or single rivetted? At upper edge	Single to gunwale bar									
At lower edge	Double.									
Butts from bilge to planksheers, worked carvel with butt straps (6/16 x 8/16 x 1/4) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 1/2 ins.) apart. Breadth of laps in double rivetting (4 1/2) Breadth of laps in single rivetting (2 3/4)										
Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted?	All double.									
Planksheer, how secured to the plating of the sides	Explain by sketch									
Waterway, planksheer and to the Beams	Iron keelsons, and alternate frames extend to the rail.									
Deck Beams, how secured to the side?	By knee plates riveted to frames.									
Hold or Lower Deck ditto	None.									
Paddle	All fore & aft stringers and keelsons connected by No. of breasthooks and crutches.									
What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.?	Wassend									
Manufacturer's name or trade mark	Wassend									
We certify that the above is a correct description of the several particulars therein given.										
Builder's Signature	Thomas Wingate & Co				Surveyor's Signature					

4 1/2 in. x 1 1/2 in.



IRON 444 - 0195

4148 Lm

Workmanship. Are the lands or laps of the clenchwork 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? Solid

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 where see.

Are there any rivets which either break into or have been put through the seams or butts of the plating? very few and in butts only.

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.

Masts and Bowsprit Single poles.
 The heaviest Power Anchor, is Wingate's Patent Stockless, weight for testing as named on Certificate is 25 lbs. The third Power is 25 lbs lighter than the weight prescribed in Table 22. Tested by W. Taylor on 31 March 1869.

A single 1/2" dia. of ball

She has SAILS.	CABLES, &c.	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	No.	Weight Ex. Stock.	Test as per Certificate.	Weight req'd per Rule.	Test req'd per Rule.
Fore Sails,	Chain	100	1 1/2	20 2/3	1 7/8	20 2/3	Patent Stockless	2	12.1.5	10.11.1	8.2.0	10 2/3
Fore Top Sails,	4 1/2" dia. Chams & Certifs						Bowers	3	2.2.5	10.13.3	8.1.0	10 2/3
Fore Topmast Stay Sails,	4 1/2" dia. 4 1/2" dia.	90	6	"	5 1/2	"	Stream	1	2.0	9.1.1	7.0.2	9 2/3
Main Sails,	Hempen Stream Cable	90	6	"	5 1/2	"	Kedges	1	1.2.18	"	1.2.0	"
Main Top Sails,	Hawser	90	7 1/2	"	1 1/8	"						
and	Towlines	90	4	"	1 1/4	"						
	Warp	90	3	"	1 1/4	"						
	All of <u>good</u> quality.											

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

She has two 2 1/2 ft. life boats on Boat and one 19 feet ding

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

Order for Special Survey No. 590 Date May 11/69 DATES of Surveys held while building as per Section 18.

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

Under special Survey the whole Time of build defr from 29th Jan'y to the 27th May 1869 20 Months

State if she has a Spar Deck No Poop Raised Deck or Forecastle yes.

General Remarks,

This report is made from notes by Mr Darling, completed so far by me, - I found the builder had made a mistake and fitted the deck transoms 7/16 throughout her length in lieu of 9/16 half the vessel's length amidships, and the wood waterway and deck partly laid. - As compensation the fore and aft deck ties on each side are now fitted for 1/2 the vessel's length amidships 18" wide by 7/16 in the hope that the Committee may favourably consider the same.

J. F. L.

The Gunwale Plate was not fitted on my last survey 10th March 1869 B. D.

In what manner are the surfaces preserved from oxidation? Inside by paint and Portland Cement in bottom Outside by paint.

I am of opinion this Vessel should be Classed B 1

The amount of the Fee£ 4 : 5 : 4 is received by me,
 Special£ 1 1/4 : 1 : 0
 Certificate (if required)£ British

Committee's Minute 25th June 18 69

Character assigned B 1

Sum of opinion this vessel should be classified as recommended

24/6/69