

# IRON SHIPS.

No. 3597 Survey held at Dundee Date 4<sup>th</sup> September  
 on the Screw Steamer Lura Master Wilson  
 Tonnage under tonnage deck 830.93 Built at Dundee When built 1869 Launched 10-7-69  
 Ditto of quarter deck  
 Ditto of poop, forecastle, or other erections on upper deck 199.17 By whom built Goulay Brothers & Co Owners General Steam Nav Co  
 Ditto of spar deck  
 Ditto of engine room all 366.54 Port belonged to London Destined Voyage Building & afloat  
 Gross tonnage 1030.1 If Surveyed while Building, Afloat, or in Dry Dock Building & afloat  
 Crew space 46.915  
 Net Register tonnage 616.62

PLANS CASE

Length aloft 249 Feet. Inches. Extreme Breadth 30 Feet. Inches. Depth from top of Upper Deck Beam to top of Floor 16 Feet. Inches. Power of Engines 250 HP No. of Decks 2

(Dimensions of Ship per Register, length 250 breadth 30.15 depth 16.65)

Particulars	Inches in Ship		Inches required per Rule for 800 tons Scale		Plates in Garboard Strakes, breadth and thickness	Ditto from Garboard to upper part of Bilges..	Ditto from upper part of Bilge to a perpendicular height from upper side of Keel of 1/3 the entire depth of Hold	Ditto from 1/3 the depth of Hold to lower edge of Sheerstrake	Sheerstrake, breadth and thickness	Butt Straps to outside plating, breadth and thickness	Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness	Angle Iron on ditto	Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways	Diagonal Tie Plates on ditto	Planksheer, materials and scantlings	Waterway ditto ditto	Flat of Upper Deck, thickness and material	Ceiling betwixt Decks and in Hold, thickness and material	Clamps or Spirketting	Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness	Stringer or Tie Plates fore and aft outside Hatchways, on Hold or Lower Deck Beams	Stringers in Hold	Flat of Lower Deck, thickness and material	Main piece of Rudder, diameter at head	" " " at heel	Bulkheads, N <sup>o</sup> . 5 Thickness of	" Height up	Transoms, material or, if none, in what manner compensated for.	Knight-heads, and Hawse Timbers		
	Inches. In Ship.	16ths. In Ship.	Inches. required per Rule.	16ths. required per Rule.																										Inches. in Ship.	16ths. In Ship.
Keel, if bar iron, depth and thickness	7 1/4	3 3/4	8	3	32 1/2	3 1/4	30	3 1/4																							
Stem, if bar iron, moulding and thickness	7 1/4	3 3/4	7 1/2	3		11/16																									
Stern-post, if bar iron, moulding and thickness	7 1/4	3 3/4	7 1/2	6		10/16		10/16																							
Distance of Frames from moulding edge to moulding edge, all fore and aft	23		23			9/16		9/16																							
Frames, Size of Angle Iron, single or double	4 1/2	3	4 1/2	3		7/16		7/16																							
Floors, depth and thickness of Floor Plate at mid line	19 1/2		19 1/2			9/16		9/16																							
Beams, Deck (N <sup>o</sup> . 51) double Angle Iron, Plate, Tee, or Bulb Iron	7 1/2		7 1/2			7/16		7/16																							
Hold, or Lower Deck (N <sup>o</sup> . 32) double Angle, Tee, Plate, or Bulb Iron	7 1/2		7 1/2			7/16		7/16																							
Keelson, single or double plate, box, or intercostal	24		24			5/8		5/8																							

The Frames extend in one length from Center line to Gun Stays rivetted through plates with (3/4 in.) rivets, about (6") apart.  
 The reverse angle irons on the floors extend in one length across the middle line from Center line to a few inches above Hold B's Stays  
 on every other, on the frame, " " and from Center line to Deck Stringer on the only intermediate

Keelson, how are the various lengths of plates or angle irons connected? double AT at each end intercostal plates rivetted to floor plates  
 Plates, Garboard, double chain rivetted to keel, double chain at upper edge, with rivets (13/16 in.) diameter, averaging (3 3/4 in.) apart.  
 Edges from Garboards to upper part of bilge, worked clencher, double chain rivetted; with rivets (13/16 in.) diameter, averaging (3 3/4 in.) apart.  
 Butts from Keel to turn of bilge, worked carvel with butt straps (equal plates) thick, double chain rivetted; with rivets (13/16 in.) diameter, averaging (3 1/2 in.) apart. Do the butt straps lap over and rivet through the lands of the strake below? on inside strake  
 Edges from bilge to sheerstrake, worked carvel with a lining piece ( ) thick, or clencher, double chain rivetted; with rivets (13/16 in.) diameter, averaging (3 3/4 in.) apart. Do the butt straps lap over and rivet through the lands of the strake below? on inside strake  
 Edges of Sheerstrake, double or single rivetted? At upper edge Single to Stringer A & B At lower edge Double Chain  
 Butts from bilge to planksheers, worked carvel with butt straps (equal plates) thick, double chain rivetted; with rivets (13/16 in.) diameter, averaging (3 1/2 in.) apart. Breadth of laps in double rivetting (4 1/2") Breadth of laps in single rivetting ( )  
 Straps of Keelsons, Stringer and Tie Plates, double or single rivetted? Double rivetted  
 Planksheer, how secured to the plating of the sides Explain by sketch } Waterway fastened the stringer plate with screw  
 Beams, how secured to the side? turned Bracket ends on Beams 18 1/2 inches deep having 5 rivets thro. ab. also  
 or Lower Deck ditto turned Bracket ends 18 1/2 inches deep 5 rivets thro. ab. also stringer plate rivetted to Beams & reverse  
 No. of breasthooks 5 for crutches 3 aft

A description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.?  
 Manufacturer's name or trade mark Platy = Fox Head & C. Best & Palmers & Co best Angle Iron Dr B. Brail  
 We certify that the above is a correct description of the several particulars therein given.  
 Surveyor's Signature Goulay Brothers & Co Surveyor's Signature Thomas Alexander

7314 Iron

manship. 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  
 wetted edges and butts, and at least three and a quarter times the diameter of the rivets where single rivetting is admitted? Yes

the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? lay close  
 the fillings between the ribs and plates fill in solid with single pieces? or are they in short lengths of various thicknesses? Solid

the holes for rivetting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Conform well and are the rivet holes  
 well and sufficiently countersunk in the outer plate? well countersunk

there any rivets which either break into or have been put through the seams or butts of the plating? in a few cases at Butts

er 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.

1<sup>st</sup> Main Mast 2 x 70' above floor 17" dia 3/8" x 5/16" plates 2 leg Caps Butts  
 5<sup>th</sup> Fore Mast - 70' - - - 17" dia - - - - - single riv Double

Type Public Test R Burrell sup

N <sup>o</sup> .	She has SAILS.	CABLES, &c.	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.		Test as per Certificate.	Wght req'd per Rule.	Test req'd per Rule.
								N <sup>o</sup> .	Weight. Ex. Stock.			
2	Fore Sails,	3473 2 <sup>nd</sup> Type R 6-7-69	135	1 1/2 Stud	40.10.0			8042 2 <sup>nd</sup> Type R 6-7-69	18.1.14	19.6.2.7		
	Fore Top Sails,	Chain						Bowers	14.2.12			
	Fore Topmast Stay Sails	3486 2 <sup>nd</sup> Type C 14-7-69	135	2 <sup>nd</sup> Stud	270 x 1 1/2	40.5		8043 2 <sup>nd</sup> Type R 6-7-69	14.7.49	18.1.0	19.4.1.14	17.3.14
	Main Sails,	Moorings	75	3/4 Stud				8028 2 <sup>nd</sup> Type R 6-7-69	8.7.69	21.0.9	21.14.1.14	21.0.0
	Main Top Sails,	Hempen Stream Cable	90	10		90 x 10		8027 2 <sup>nd</sup> Type R 6-7-69	8.7.69	21.0.9	21.14.1.14	21.0.0
	and others in all 86"	Hawser	90	8		90 9		Stream	9.0.0			9.0.0
		Towlines	80	7		90 5 1/2		with Stock				21.6
		Warp	80	4 1/2				Kedges	4.2.13			4.2.0
		All of Good quality.	120	5				with Stock	2.1.10			2.1.0

Her Standing and Running Rigging Mixed Hemp sufficient in size and in in quality.

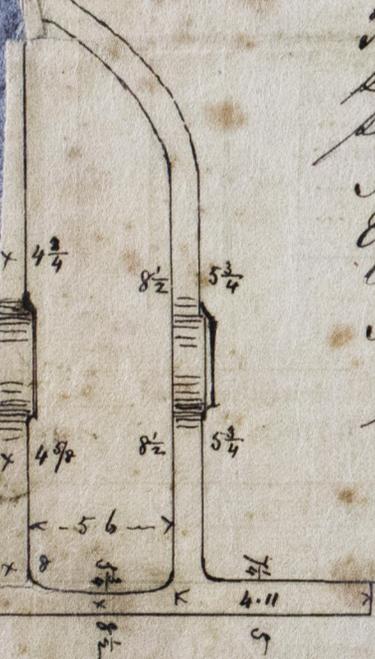
She has Five Long Boats and 1 of 17' x 2 x 22 ft + 2 x 24 ft

The present state of the Windlass is Good Capstan Good Masts and Rudder Good Pumps 4 deck  
Harfield & Co's patent 4 Steam Engines

Order for Special Survey No. 244 DATES of Surveys held March & April  
 Date 4-3-69 while building 2<sup>nd</sup>. On the plating during the progress of rivetting May & June  
 Order for Ordinary Survey No. 41 as per 3<sup>rd</sup>. When the beams were in and fastened, and before the decks were laid put up with frames  
 Date 4-1-69 Section 18. 4<sup>th</sup>. When the ship was complete, and before the plating was finally coated June  
 No. 41 - Bantock's Yard 5<sup>th</sup>. After the ship was launched July Aug + 1 2 3 + 4 Sept  
 State if she has a Spar Deck Engine House Deck Poop 1/4 ft from or Forecastle Deck about 62 ft past carried over side of Engine House  
about 68 1/2 ft long

General Remarks,

This vessel has been built agreeable to the enclosed sections submitted 20/2/69, with the alterations stipulated in Secretary's letter of 24/2/69.  
 Is fitted with full Poop & Top gallant Forecastle with Engine House deck amidships about 68 1/2 ft in length connected to 1/4 plate Bulwarks & side framing of Hull.  
 Is plated in top of deck Beams outside of Engine House on Main deck with 3/8 plates agreeable to plan enclosed.



In what manner are the surfaces preserved from oxidation? Inside Painted in bottom & 3 Coats Red Lead Oxide y. Iron & other colors  
 Ditto ditto Outside 4 Coats Red Lead Oxide y. Iron & other colors

I am of opinion this Vessel should be Classed A 1

The amount of the Fee £ 5 : - : - is received by me,  
 Special £ 49 : 3 : 0  
 Certificate (if required) £ 5 : 3 : 0  
 Committee's Minute September 18 69

Thomas Alexander  
 This vessel appears to be classed as above & is ready to receive the certificate.  
 Lloyd's Register of Shipping  
 6th Sept 1869  
 Foundati

Character assigned A 1

Wm. Sims & Co.  
 5/13/80