

IRON SHIPS.

Rec 3/12/66

18 66

5158 Survey held at Port Glasgow

Date 19th Nov.

e Barque

"Britomart"

Master

Bartlett

age under tonnage deck 576. 23

Built at Ponthiasport

When built 1866

Launched 23rd Oct. 1866

of poop _____ or spar deck 23.41

By whom built John Reid H.C.

Owners Henry Bowring

Register tonnage

Port belonging to Liverpool

Destined Voyage Glyde to Liverpool &c

Surveyed while Building, Afloat, or in Dry Dock While Building

Feet.		Inches.		Feet.		Inches.		Feet.		Inches.		Feet.		Inches.		Feet.		Inches.	
Length aloft		Extreme Breadth		Depth from top of Upper Deck Beam to top of Floor		Power of Engines		No. of Decks		Inches. In Ship.		16ths. In Ship.		Inches. required per Rule.		16ths. required per Rule.			
165		28 7/10		28 7/10		18 7/10		18 7/10		30 1/2		46		30		46			
Dimensions of Ship per Register, length 172 5/8 breadth 28 7/10 depth 18 7/10																			
Keel, bar iron, depth and thickness..... 7 x 2 1/2 7 x 2 1/2																			
,, if plate iron, breadth and thickness 7 x 2 1/2 7 x 2 1/2																			
,, bar iron, moulding and thickness 7 x 2 1/2 7 x 2 1/2																			
,, if plate iron, breadth and thickness 7 x 2 1/2 7 x 2 1/2																			
,, bar iron, moulding and thickness 7 x 2 1/2 7 x 2 1/2																			
,, if plate iron, breadth and thickness 7 x 2 1/2 7 x 2 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 3 7/8 3 1/2 3 7/8																			
,, Reversed Iron, to every frame... 3 2 1/2 6/8 3 2 1/2 6/8																			
Floors, depth and thickness of Floor Plate at mid line 19 1/2 8/8 19 1/2 8/8																			
,, Ditto ditto at Bilge Keelson 12 8/8 12 8/8																			
,, Size of Reversed Angle Iron, and No. single at top of Floor Plate } 3 2 1/2 6/8 3 2 1/2 6/8																			
Beams, Deck (No.) double Angle Iron, Plate, Tee, or Bulb Iron 7 7/8 7 7/8																			
,, double or single Angle Iron, on upper edge.... 2 1/2 2 1/2 5/8 2 1/2 2 1/2 5/8																			
,, average space between 3 feet 6 inches 3 feet 6 inches																			
,, Hold, or Lower Deck (No.) double Angle, Tee, Plate, or Bulb Iron } 7 7/8 7 7/8																			
,, double or single Angle Iron on upper edge.... 2 1/2 2 1/2 5/8 2 1/2 2 1/2 5/8																			
,, average space between 3 feet 6 inches 3 feet 6 inches																			
,, Paddle, sided and moulded, thickness of Plate size of Angle Iron }																			
,, Engine ,																			

Ransoms, material Iron or, if none, in what manner compensated for.

Knight-heads, and Hawse Timbers

The Frames extend in one length from Keel to Gunnwale

The reverse angle irons on the floors extend in one length across the middle line from Silga to Gumwale alternately

" " *fixed* on the frames " " " from _____ to _____

Queson, how are the various lengths of plates or angle irons connected? By plate and Angle Iron built straps

plates, Garboard, double ☒ rivetted to keel, double ☒ at upper edge, with rivets ($1\frac{3}{4}$ ins.) diameter, averaging ($4\frac{1}{2}$ in.) apart.

Edges from Garboards to upper part of bilge, worked clencher, double ~~or single~~ rivetted; with rivets ($\frac{3}{4}$ in.) diameter, averaging (3 ins.) apart.

Butts from Keel to turn of bilge, worked carvel with butt straps ($\frac{11}{16} \times \frac{10}{16}$) thick, double ~~or single~~ rivetted; with rivets ($\frac{7}{8}$ in.) diameter.

averaging (3 ins.) apart.

Edges from bilge to sheerstrake, worked ~~carvel~~ with a lining piece (—) thick, or clencher, double or single rivetted; with rivets ($\frac{5}{16}$ in.) diameter.

averaging (3 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 Double At lower edge Double

Butts from bilge to planksheers, worked carvel with butt straps ($\frac{9}{16}$, $\frac{8}{16}$ & $\frac{10}{16}$) thick, double ~~or single~~ rivetted; with rivets ($\frac{7}{8}$ in.) diameter.

averaging (3 ins.) apart. Breadth of laps in double rivetting (4 1/2 inches) Breadth of laps in single rivetting ()

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

Explain by sketch

interway „ „ planksheer and to the Beams { if necessary. }

Back Beams, how secured to the side? Beam ends turned down

Old or Lower Deck ditto Beam ends turned down No. of breasthooks Four crutches Four

Riddle " " Dundee van Bron and Stringer Plates. Outside Plating, &c.? *Hankston Iron*

What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Girders, etc.

Manufacturer's name or trade mark *Lundberg Iron Co. Portland Ore*

We certify that the above is a correct description of the several particulars _____
[Signature]
 Signature

Builder's Signature J. H. & W. H. 18 Surveyor's Signature Robert

1000 same

120440 - 0196

5787 Iron

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 lengths
 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? A few

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. Dundergan Iron Angle Irons, Dundergan Iron Plate Irons)

Masts &c.	Thickness of plating	Rivetting of butts	Rivetting of edges	Angle Irons	Diameter
Fore mast	1/2"	Double	Double	4 1/2 x 3 x 7/8	2 1/4 inches
Main Mast	1/2"	"	"	4 1/2 x 3 x 7/8	2 1/4 "
Bowsprit	1/2"	"	"	4 1/2 x 3 x 7/8	2 1/4 "
Mizen Mast	Wood				



She has SAILS. CABLES, &c., tested at <u>Lloyds' Tipton Proving House, Samuel Ferguson</u>						ANCHORS, tested at <u>Lloyds' Tipton Proving House, Samuel Ferguson</u>					
No.		No. on Chain seen by me.	No. and date on Certificate	Fathoms.	Inches.	Tested to Tons.	No.	No. on Anchor seen by me.	No. and date on Certificate.	Weight Ex. Stock.	Tested to Tons.
Fore Sails,	Chain		2718 I 17/8/1866	135	1 1/4	37.4.0.0	Bowers	1	2718 I 17/8/1866	19.2.2	20.8.1.2
Fore Top Sails,	Hemp		2719 I 17/8/1866	135	1 1/4	37.4.0.0		1	2719 I 17/8/1866	18.1.16	19.8.3.0
Fore Topmast Stay Sails,	Stream Cable		1282 C 5.20/9/1866	90	9 1/2	11.18.0.0		1	1282 C 5.20/9/1866	16.2.8	17.18.1.3
Main Sails,	Hawser			90	7		Stream	1	1282	8.1.14	9.0.0.0
Main Top Sails,	Towlines			90	4		Kedges	1	1282	4.1.2	5.16.2
	Warp							1		2.0.15	4.4.1
and	All of <u>Good</u> quality.										

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

She has One Life Boat One Long Boat and Cutter and Gig
 The present state of the Windlass is Good Two Capstans Good and Rudder Good with patent steering gear Pumps Two Iron Wilson's patent & one stern pump lead Good

Order for Special Survey	DATES of	1st.	On the several parts of the frame, when in place, and before the plating was wrought
No. <u>392</u>	Surveys held	2nd.	On the plating during the progress of rivetting
Date <u>13th March 1866</u>	while building	3rd.	When the beams were in and fastened, and before the decks were laid
Order for Ordinary Survey	as per	4th.	When the ship was complete, and before the plating was finally coated
No. _____	Section 18.	5th.	After the ship was launched
Date _____			

State if she has a Spar Deck _____ Poop _____ or Forecastle _____

General Remarks, This vessel has been built under Special survey as per Order N^o. 392. Is fitted with a raised quarter deck and Monkey forecastle with a house on deck for the crew.

In what manner are the surfaces preserved from oxidation? Inside Portland Cement to upper parts of bilges and three coats of Rich of Iron paint
 Ditto ditto Outside Three coats of Rich of Iron paint and one coat of M. Enamel composition on bottom

I am of opinion this Vessel should be Classed A1
 The amount of the Fee £ 5 : : : is received by me,

Der Me Special £ 29 : 19 : :
 X Certificate (if required) £ : : : :

Committee's Minute 4th December 1866

Character assigned A1

H. J. B. v. l. c. h.
Robt. Luce

I am of opinion 2019 days
Small Rain is eligible for
 Classification as second class
above
John Luce

11th March 1866, Liverpool