

IRON SHIPS.

No. 9476 Survey held at Sunderland Date 1st Decr 1868
 on the Barque "Catalina" Master L. Ausuategui
 Tonnage under tonnage deck 482.28 Built at Sunderland When built 1868 Launched 14th Nov 1868
 Ditto of Quater deck 21.72 By whom built M^{rs} Foxford & Co. Owners Yturriaga & Ausuategui
 Ditto of engine room House 10.81 Port belonging to Bilbao Destined Voyage Ferrol
 Total Register tonnage 499.67
 Gross Tonnage 514.81
 Deduct Crew space 15.14
 If Surveyed while Building, Afloat, or in Dry Dock Whilst Building

Length aloft	Ft.	Inches.	Extreme Breadth	Ft.	Inches.	Depth from top of Upper Deck Beam to top of Floor	Ft.	Inches.	Power of Engines	Horse.	No. of Decks
147			28		2	16		10			One

(Dimensions of Ship per Register, length 51.1 breadth 28.1 depth 16.8)

	Inches in Ship.	Inches required per Rule.	Inches in Ship.	Inches required per Rule.	Inches in Ship.	Inches required per Rule.
Keel, if bar iron, depth and thickness	7 1/8 x 2 1/2	6 3/4 x 2 1/2				
" if plate iron, breadth and thickness	7 x 2 1/2	6 3/4 x 2 1/2				
Stem, if bar iron, moulding and thickness	7 x 2 1/2	6 3/4 x 2 1/2				
" if plate iron, breadth and thickness	7 x 2 1/2	6 3/4 x 2 1/2				
Stern-post, if bar iron, moulding and thickness	7 x 2 1/2	6 3/4 x 2 1/2				
" if plate iron, breadth and thickness	7 x 2 1/2	6 3/4 x 2 1/2				
Distance of Frames from moulding edge to moulding edge, all fore and aft	21 in	21 in				
Frames, Size of Angle Iron, single or double	3 1/2 x 2 3/4	7 x 3 1/2	2 3/4 x 2 1/2	7 x 2 3/4		
" Reversed Iron, & to every frame	2 1/2 x 2 1/2	6 x 2 1/2	2 1/2 x 2 1/2	6 x 2 1/2		
" and or every alternate frame	2 1/2 x 2 1/2	6 x 2 1/2	2 1/2 x 2 1/2	6 x 2 1/2		
Floors, depth and thickness of Floor Plate at mid line	19	7	19	7		
" Ditto ditto at Bilge Keelson	9	7				
" Size of Reversed Angle Iron, and No. 1 & 2 at top of Floor Plate	2 3/4 x 2 1/2	6 x 2 3/4	2 1/2 x 2 1/2	6 x 2 1/2		
Beams, Deck (No. 40) double Angle Iron, Plate, Tee, or Bulb Iron	7	7	7	7		
" double or single Angle Iron, on the upper edge	2 3/4 x 2 1/2	5 x 2 1/2	2 1/2 x 2 1/2	5		
" average space between	alternate frames					
" Hold, or Lower Deck (No. 27) double Angle, Tee, Plate, or Bulb Iron	7	7	7	7		
" double or single Angle Iron on the upper edge	2 3/4 x 2 1/2	6 x 2 3/4	2 1/2 x 2 1/2	6		
" average space between	2nd & 4th frames alternately					
" Paddle, sided and moulded, thickness of Plate size of Angle Iron						
" Engine						
Keelson, single or double plate, box, or intercostal	standing on floors					
" Size of Plates	20 ft long	13	10	12	10	
" Size of Angle Irons	double top	4	3	6	4	3
" Side, single or double, plate, box, or intercostal	and bottom					
" Bilge (No. One) at each Bilge, single, or double, plate, or box	A, I.	4	3	6	4	3

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

Knight-heads, and Hawse Timbers Iron

The Frames extend in one length from Keel to Gunwale rivetted through plates with (3/4 in.) rivets, about (5 1/2) apart.

The reverse angle irons on the floors extend in one length across the middle line from Keel to Upper turn of bilges on every frame

" " " on the frames " " " from Keel and Gunwale on alternate frames

Keelson, how are the various lengths of plates or angle irons connected? With butt straps

Plates, Garboard, double or single rivetted to keel, double or single at upper edge, with rivets (3/4 ins.) diameter, averaging (3 ins.) apart.

" Edges from Garboards to upper part of bilge, worked clencher, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 ins.) apart.

" Butts from Keel to turn of bilge, worked carvel with butt straps (9 x 10 / 16) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 ins.) apart.

Do the butt straps lap over and rivet through the lands of the strake below? Yes on alternate strakes

" 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 (3 ins.) apart.

Do the butt straps lap over and rivet through the lands of the strake below? Yes on alternate strakes

" Edges of Sheerstrake, double or single rivetted? At upper edge Single At lower edge Double

" Butts from bilge to planksheers, worked carvel with butt straps (7.8 x 9 / 16) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 ins.) apart. Breadth of laps in double rivetting (4 3/4) Breadth of laps in single rivetting (3 in)

Butt 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 } Gutter Gunwale

Waterway " " planksheer and to the Beams { if necessary. }

Deck Beams, how secured to the side? Curved down ends, & rivetted to main frames & stringer plates

Hold or Lower Deck ditto Curved down ends, & rivetted to main frames & stringer plates

Paddle " " No. of breasthooks 4 crutches 4

What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c. Plating by Coldchaw & Vaughan

Manufacturer's name or trade mark Beams & floor plates by Stockton Mablethorpe Iron Co., and Angles by Dysons & Co.

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

Builder's Signature William Foxford Surveyor's Signature James Schur

6724 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 with single pieces
Do the holes for rivetting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes very well 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 very 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.

The fore & main lower Masts, & the bowsprit are of Iron, and the lower Yards of Steel. Please see sketch attached.

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.	W'ght req'd per Rule.	Test req'd per Rule.
2	Fore Sails,	Chain	270	1 3/8	34	1 3/8	34	Bowers	3	18-3-0 17-1-14 14-2-0	18-0-2-14 18-10-2-14 16-1-1-0	16-5-0 16-5-0 14-1-2-7	18-0-0-0 18-0-0-0 18-4-0-0
2	Fore Top Sails,												
2	Fore Topmast Stay Sails	Hempen Stream Cable	80	8									
2	Main Sails,	Hawser <i>Iron</i>	75	13/16				Stream	1	7-0-7			
2	Main Top Sails,	Towlines	75	6 1/2									
		Warp	120	5 1/2				Kedges	2	8-3-14 1-3-0			
	and others well found	All of <u>good</u> quality.	90	4									
	Her Standing and Running Rigging	<i>Wire & Hemp</i>											
	She has	<u>one Life Boat</u> Long Boat and <u>3 others</u>											
	The present state of the Windlass is	<u>good</u> Capstan <u>good</u> and Rudder <u>good</u> Pumps <u>good</u>											

Order for Special Survey DATES of 1st. On the several parts of the frame, when in place, and before the plating was wrought Built under S.P. 7
No. 2196 Surveys held 2nd. On the plating during the progress of rivetting Surveyed 1868 July 4-20 27 30 Aug
Date 17th July 1868 while building 3rd. When the beams were in and fastened, and before the decks were laid 14-10-12-18-24-27 Sept 1-3-5-10-14-17
Order for Ordinary Survey as per 4th. When the ship was complete, and before the plating was finally coated 21-23-28 Oct 1-5-9-13-14-17-20-23-26-30
No. _____ Section 18. 5th. After the ship was launched Nov 2-6-10-12-16-18 Dec 1
Date _____
State if she has a Spar Deck _____ Poop _____ or Forecastle _____

General Remarks,
The Butt straps to the sheer-strake plates, are 1 1/2 in wide, & treble rivetted, and the Ceiling in flat, between the main and Bilge Keelsons, is fitted in Hatches, nearly all fore & aft

Certificate for the Tests of Chain cables & Anchors have been produced issued from the Sunderland & Wear Public Testing Houses signed by John Hartnup S.M.

In what manner are the surfaces preserved from oxidation? Inside Portland Cement to upper turn of Bilges, & Paint above
Ditto ditto Outside 3 Coats of Paint

I am of opinion this Vessel should be Classed A1
The amount of the Fee£ 5 : " : " is received by me,
Dec 1868 Special£ 24 : 19 : "
Certificate (if required)£ " : " : "

Committee's Minute 4th December 1868
Character assigned A1

James Sibson

This Barge built of Iron appears eligible for Classification as recommended above
Lloyd's Register
Foundation