

5896 IRON SHIPS.

No. 3422 Survey held at Glasgow Date 30 Nov 1867
 on the Barque "Dunbar" Master Counsell
 Tonnage under tonnage deck 599.83 Built at Glasgow When built 1867 Launched 14th Nov 1867
 Ditto of poop or spar deck ---
 Ditto of engine room --- By whom built Glasgow Shipyard Owners Louden 3 others
 Total Register tonnage 599.83 Port belonging to Liverpool Destined Voyage San Francisco
 Gross Tonnage ---
 If Surveyed while Building, Afloat, or in Dry Dock whilst building and afloat

Length aloft	Extreme Breadth	Depth from top of Upper Deck Beam to top of Floor	Power of Engines	Horse	N ^o . of Decks
<u>108</u>	<u>27.8</u>	<u>18.25</u>	<u>10</u>	<u>10</u>	<u>One</u>
<i>(Dimensions of Ship per Register, length <u>108</u> breadth <u>27.8</u> depth <u>18.25</u>)</i>					
Keel, if bar iron, depth and thickness	<u>1 x 2 1/2</u>	<u>1 x 2 1/2</u>	Plates in Garboard Strakes, breadth and thickness	<u>30</u>	<u>30</u>
„ if plate iron, breadth and thickness	<u>---</u>	<u>---</u>	Ditto from Garboard to upper part of Bilges	<u>10</u>	<u>10</u>
Stem, if bar iron, moulding and thickness	<u>1 x 2 1/2</u>	<u>1 x 2 1/2</u>	„ from upper part of Bilge to a perpendicular height from upper side of Keel of 3/4ths the entire depth of Hold	<u>9</u>	<u>9</u>
„ if plate iron, breadth and thickness	<u>---</u>	<u>---</u>	„ from 3/4ths depth of Hold to lower edge of Sheerstrake	<u>8</u>	<u>8</u>
Stern-post, if bar iron, moulding and thickness	<u>1 x 2 1/2</u>	<u>1 x 2 1/2</u>	„ Sheerstrake, breadth and thickness	<u>35</u>	<u>30</u>
„ if plate iron, breadth and thickness	<u>---</u>	<u>---</u>	Butt Straps to outside plating, breadth and thickness	<u>9 1/2</u>	<u>10</u>
Distance of Frames from moulding edge to moulding edge, all fore and aft	<u>31</u>	<u>31</u>	Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness	<u>22</u>	<u>23 1/2</u>
Frames, Size of Angle Iron, single or double	<u>3 1/2</u>	<u>3</u>	Angle Iron on ditto	<u>4 x 3 1/2</u>	<u>4 x 3 1/2</u>
„ Reversed Iron, if to every frame	<u>---</u>	<u>---</u>	Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways	<u>10</u>	<u>10</u>
„ or every other frame	<u>---</u>	<u>---</u>	Diagonal Tie Plates on ditto	<u>10</u>	<u>10</u>
Floors, depth and thickness of Floor Plate at mid line	<u>10</u>	<u>10</u>	Planksheer, materials and scantlings	<u>10</u>	<u>10</u>
„ Ditto ditto at Bilge Keelson	<u>10</u>	<u>10</u>	Waterway ditto ditto	<u>---</u>	<u>---</u>
„ Size of Reversed Angle Iron, and No. 1 3 2 at top of Floor Plate	<u>3</u>	<u>2 1/2</u>	Flat of Upper Deck, thickness and material	<u>4 x 5 1/2</u>	<u>4 x 5 1/2</u>
Beams, Deck (N ^o . of double Angle Iron, Plate, Tee, or Bulb Iron)	<u>1</u>	<u>1</u>	„ „ how fastened to Beams	<u>---</u>	<u>---</u>
„ double or single Angle Iron on upper edge	<u>1 1/2</u>	<u>1 1/2</u>	Ceiling betwixt Decks and in Hold, thickness and material	<u>5 x 3</u>	<u>5 x 3</u>
„ average space between	<u>3 feet</u>	<u>3 feet</u>	Clamps or Spirketting ditto	<u>---</u>	<u>---</u>
Hold, or Lower Deck (N ^o . of double Angle, Tee, Plate, or Bulb Iron)	<u>1</u>	<u>1</u>	Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness	<u>21</u>	<u>18</u>
„ double or single Angle Iron on upper edge	<u>1 1/2</u>	<u>1 1/2</u>	Stringer or Tie Plates fore and aft outside Hatchways, on Hold or Lower Deck Beams	<u>4 x 3 1/2</u>	<u>4 x 3 1/2</u>
„ average space between	<u>3 feet</u>	<u>3 feet</u>	Stringers in Hold	<u>4 x 3 1/2</u>	<u>4 x 3 1/2</u>
„ Paddle, sided and moulded, thickness of Plate size of Angle Iron	<u>---</u>	<u>---</u>	Flat of Lower Deck, thickness and material	<u>3 1/2</u>	<u>3 1/2</u>
„ Engine „ „ „	<u>---</u>	<u>---</u>	Main piece of Rudder, diameter at head	<u>4 1/2</u>	<u>4 1/2</u>
Keelson, single or double plate, box, or intercostal	<u>Single plate</u>	<u>---</u>	„ „ „ at heel	<u>3 1/2</u>	<u>3 1/2</u>
„ Size of Plates	<u>10</u>	<u>12</u>	(Can the Rudder be unshipped afloat)	<u>Yes</u>	<u>---</u>
„ Size of Angle Irons	<u>4</u>	<u>3 1/2</u>	Bulkheads, N ^o . Thickness of	<u>10</u>	<u>10</u>
„ Side, single or double, plate, box, or intercostal	<u>4</u>	<u>3 1/2</u>	„ Height up upper deck	<u>---</u>	<u>---</u>
„ Bilge (No. of single, or double, plate, or box)	<u>4</u>	<u>3 1/2</u>	„ how secured to the sides of the ship	<u>riveted between top of J</u>	<u>---</u>
Transoms, material	<u>Am. Walnut</u>	<u>---</u>	„ size of vertical angle irons, and their distance apart	<u>30 ins</u>	<u>---</u>
Knight-heads, and Hawse Timbers	<u>Am. Walnut</u>	<u>---</u>	The Frames extend in one length from	<u>Middle line to Gunwale</u>	<u>---</u>
The Frames extend in one length from	<u>Middle line to Gunwale</u>	<u>---</u>	The reverse angle irons on the floors extend in one length across the middle line from	<u>upper part of Hold Beams to J</u>	<u>---</u>
„ „ „ on the frames	<u>---</u>	<u>---</u>	„ „ „ from	<u>Middle line to Gunwale</u>	<u>---</u>
Keelson, how are the various lengths of plates or angle irons connected?	<u>by lining pieces</u>	<u>---</u>	Plates, Garboard, double or rivetted to keel, double or at upper edge, with rivets	<u>1/2 in.</u>	<u>---</u>
Plates, Garboard, double or rivetted to keel, double or at upper edge, with rivets	<u>1/2 in.</u>	<u>---</u>	„ Edges from Garboards to upper part of bilge, worked clencher, double or single rivetted; with rivets	<u>3/4 in.</u>	<u>---</u>
„ Edges from Garboards to upper part of bilge, worked clencher, double or single rivetted; with rivets	<u>3/4 in.</u>	<u>---</u>	„ Butts from Keel to turn of bilge, worked carvel with butt straps	<u>5/8</u>	<u>---</u>
„ Butts from Keel to turn of bilge, worked carvel with butt straps	<u>5/8</u>	<u>---</u>	„ Edges from bilge to sheerstrake, worked carvel with a lining piece	<u>---</u>	<u>---</u>
„ Edges from bilge to sheerstrake, worked carvel with a lining piece	<u>---</u>	<u>---</u>	„ Edges of Sheerstrake, double or single rivetted? At upper edge	<u>Single to Bulb</u>	<u>---</u>
„ Edges of Sheerstrake, double or single rivetted? At upper edge	<u>Single to Bulb</u>	<u>---</u>	„ Butts from bilge to planksheers, worked carvel with butt straps	<u>5/8 to 10/8</u>	<u>---</u>
„ Butts from bilge to planksheers, worked carvel with butt straps	<u>5/8 to 10/8</u>	<u>---</u>	Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted?	<u>Double</u>	<u>---</u>
Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted?	<u>Double</u>	<u>---</u>	Planksheer, how secured to the plating of the sides	<u>---</u>	<u>---</u>
Planksheer, how secured to the plating of the sides	<u>---</u>	<u>---</u>	Waterway „ „ planksheer and to the Beams	<u>---</u>	<u>---</u>
Waterway „ „ planksheer and to the Beams	<u>---</u>	<u>---</u>	Deck Beams, how secured to the side?	<u>Welded</u>	<u>---</u>
Deck Beams, how secured to the side?	<u>Welded</u>	<u>---</u>	Hold or Lower Deck ditto	<u>---</u>	<u>---</u>
Hold or Lower Deck ditto	<u>---</u>	<u>---</u>	Paddle „ „	<u>---</u>	<u>---</u>
Paddle „ „	<u>---</u>	<u>---</u>	What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.?	<u>---</u>	<u>---</u>
What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.?	<u>---</u>	<u>---</u>	Manufacturer's name or trade mark	<u>---</u>	<u>---</u>
Manufacturer's name or trade mark	<u>---</u>	<u>---</u>	We certify that the above is a correct description of the several particulars therein given.		
Builder's Signature <u>Alex Stephen How</u>			Surveyor's Signature <u>A. B. Darlow</u>		

IRON44-0348

Lloyd's Register
Foundation

5896 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? 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? a few in courses of

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.

Tested by Mr Taylor 19th Dec 1864 *Tested by Mr Taylor 18th Dec 1864*

Double Sails

No.	She has SAILS.	CABLES, &c.				ANCHORS, &c.							
		Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	N ^o .	Weight. Ex. Stock.	Test as per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.		
	Fore Sails,	Chain	270	1 7/8	3 1/4	1 7/8	3 1/2	Bowers	3	20.0.0	20.15.0	18.0.0	19
	Fore Top Sails,									19.0.0	19.10.0	18.5.0	19
	Fore Topmast Stay Sails	Hempen Stream Cable	90	1 1/2		9		Stream	1	8.1.15	9.7.0	8.0.0	10 1/2
	Main Sails,	Hawser	15	1 1/2									
	Main Top Sails,	Towlines	100	1 1/2		7							
	and	Warp	200	1 1/2									
		All of <u>Good</u> quality.	290	1 1/2				Kedges	2	4.1.2	5.0.3	4.0.0	5

Her Standing and Running Rigging Good sufficient in size and Good in quality.
 She has 24 x 7.0 x 3.0 Long Boat and 24 x 7.0 x 3.0 life boat. 23 x 5.3 x 3.0 ply B 23 x 5 x 2
 The present state of the Windlass is New Capstan New and Rudder New Pumps New and efficient

Order for Special Survey DATES of
 No. 491 Surveys held
 Date June 4/64 while building
 Order for Ordinary Survey as per
 No. 1 Section 18.
 Date 1/64
 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 built under special survey
 3rd. When the beams were in and fastened, and before the decks were laid from the 22nd Aug 64
 4th. When the ship was complete, and before the plating was finally coated to the 30th Nov 64
 5th. After the ship was launched

State if she has a Spar Deck No Poop No or Forecastle No

General Remarks,

Butts of Gunwale Plate are tuble riveted, also Sheerstrake.
 Bulw Bar fitted to Bilge Beels on 7 x 70, between two Ang Bars 4 x 3 1/2 x 70. An extra stringer fitted in flat of Bottom formed of double Angle Bars 4 x 3 1/2 x 70.
 Hold Beams Stantives 3 in.
 Main piece of Windlass of Gunheart, with strong Spindle.
 Two outside Hatchways on Hold Beams formed of double Angle Bars 4 x 3 1/2 x 70, tween decks laid for this breadth.
 Fore and Mainmasts and Bowsprit are of iron, formed of three plates 9/16 thick, lands double clenched, and Butts tuble carvel riveted.
 Fore and Main Yards are of wood 9/16 x 9/16 thick, lands single clenched and Butts tuble carvel riveted.

In what manner are the surfaces preserved from oxidation? Inside Flat of Bottom with Portland Cement
 Ditto ditto Outside Red Lead and patent paints

I am of opinion this Vessel should be Classed A
 The amount of the Fee £ 5 : : is received by me,
 Dec 1864 Special £ 30 : :
 Certificate (if required) £ 10 : :
 Committee's Minute 3rd December 1864

Character assigned A
 A.T.C.P. M.S.

A. Dalrymple
 This Sailing Vessel built of Iron appears eligible for Classification as recommended above.
 Dec 1864

