

5963
IRON SHIPS.

Rev. 20/1/68

No. 9216 Survey held at Sunderland Date January 1868 1868
 on the screw steamer "Dacia" Master Dowell
 Tonnage under tonnage deck 1057.15
 Ditto of poop or spar deck 11.21
 Ditto of engine room 11.62
 Total Register tonnage 1162.65
 Gross Tonnage 1614.21 Port belonging to London Destined Voyage Alexandria

If Surveyed while Building Afloat, or in Dry Dock

Length aloft	Feet. Inches.	Extreme Breadth	Feet. Inches.	Depth from top of Upper Deck Beam to top of Floor	Feet. Inches.	Power of Engines	Horse.	N. of Decks	Feet.
(Dimensions of Ship per Register, length 243.4)				breadth 34.36 depth 14.7	to top of Spar Deck	25.45	140	2	12
Keel, if bar iron, depth and thickness.....								Plates in Garboard Strakes, breadth and thickness	36
,, if plate iron, breadth and thickness								" 12 186 12	
Stem, if bar iron, moulding and thickness								Ditto from Garboard to upper part of Bilges	
,, if plate iron, breadth and thickness								,, from upper part of Bilge to a perpendicular height from upper side of Keel of $\frac{3}{4}$ ths the entire depth of Hold	
Stern-post, if bar iron, moulding and thickness								,, from $\frac{3}{4}$ ths depth of Hold to lower edge of Sheerstrake	
,, if plate iron, breadth and thickness								,, Sheerstrake, breadth and thickness	36
stance of Frames from moulding edge to moulding edge, all fore and aft								Butt Straps to outside plating, breadth and thickness	
Floors, depth and thickness of Floor Plate at mid line								,, 11 ^{See Dec 4 Letter} ^{22 of March 1868}	
,, Ditto ditto at Bilge Keelson								,, 12 ^{See Dec 4 Letter} ^{22 of March 1868}	
,, Size of Reversed Angle Iron, and No. ^{at top of Floor Plate} _{in way of Keelson} double Angle Iron, Plate, Tee, or Bulb Iron								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
,, double or single Angle Iron, on upper edge								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
,, average space between								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
,, Hold, or Lower Deck (No. 30) double Angle, Tee, Plate, or Bulb Iron								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
,, double or single Angle Iron, on upper edge								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
,, average space between								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
,, Paddle, sided and moulded, thickness of Plate size of Angle Iron								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
,, Engine								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Keelson, single or double plate, box, or intercostal								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Size of Plates								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Size of Angle Irons								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Side, single or double, plate, box, or intercostal								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
,, Bilge (No. ^{angle iron on side} _{5.25}) at each Bilge, single, or double, plate, or box								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Transoms, material of iron or, if none, in what manner compensated for.								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Knight-heads, and Hawse Timbers								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
The Frames extend in one length from Keel to Spar Deck Stringer								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
The reverse angle irons on the floors extend in one length across the middle line from to above the Main Deck stringers on all the on the frames								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Keelson, how are the various lengths of plates or angle irons connected? The side intercostal Keelsons are riveted through angle irons, and outside plating at bottom and double angle iron on top (see sketch). Plates, Garboard, double or riveted to keel, double								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Edges from Garboards to upper part of bilge, worked clencher, double or single riveted; with rivets ($\frac{7}{16}$ in.) diameter, averaging ($\frac{3}{2}$ ins.) apart.								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Butts from Keel to turn of bilge, worked carvel with butt straps ($\frac{13}{16}$ in.) thick, double or single riveted; with rivets ($\frac{7}{16}$ in.) diameter, averaging ($\frac{3}{2}$ ins.) apart.								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Edges from bilge to sheerstrake, worked carvel with a lining piece ($\frac{1}{2}$ in.) thick, or clencher, double or single riveted; with rivets ($\frac{7}{16}$ in.) diameter, averaging ($\frac{3}{2}$ ins.) apart.								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Edges of Sheerstrake, double or single riveted. At upper edge and At lower edge								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Butts from bilge to plankshears, worked carvel with butt straps ($\frac{13}{16}$ in.) thick, double or single riveted; with rivets ($\frac{7}{16}$ in.) diameter, averaging ($\frac{3}{2}$ ins.) apart. Breadth of laps in double rivetting ($5\frac{1}{2}$ in.) Breadth of laps in single rivetting ($3\frac{1}{2}$ in.)								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Butt Straps of Keelsons, Stringer and Tie Plates, double or single riveted?								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Planksheer, how secured to the plating of the sides								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Waterway planksheer and to the Beams								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Deck Beams, how secured to the side?								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Hold or Lower Deck ditto								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	
Paddle								,, 10 ^{See Dec 4 Letter} ^{22 of March 1868}	

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

Manufacturer's name or trade mark Beams by Cook Wilson & Bell, Lining plates outside plating by Bolckow Vaughan & Co and the Stringer plates by the Hartlepool Iron Co

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

Builder's Signature

James Loring

Surveyor's Signature

James Loring

IRON 441-0416

Lloyd's Register Foundation

5963 - 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 riveted 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 fay 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 and are the rivet holes well and sufficiently countersunk in the outer plate? They are

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

offered
Her Masts, Bowsprit, Yards, &c., are in good condition, and sufficient in size and length. (If they are of Iron or Steel give the Scanlings 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.)

N°.	She has SAILS.	CABLES, &c.	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	N°.	Weight.	Test as per Certificate.	Wght req'd per Rule.	Test req'd per Rule.
			Chain	300	1 1/2	55 5/8	1 1/16	Bowers	1	30.0 1/4	28.14.1.14	30.0.0	28.14.1.14
Fore Sails,			Hempen Stream Cable	90	10								
Fore Top Sails,			Hawser	90	1								
Fore Topmast Stay Sails			Towlines	90	7 1/2								
Main Sails,			Warp	90	6 1/2								
Main Top Sails,		All of <u>good</u> quality.		90	5 1/2								
and								Kedges					

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

She has 2 life boats Long Boat and five oars

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

Order for Special Survey	DATES of Surveys held while building	1st. On the several parts of the frame, when in place, and before the plating was wrought	Built under Special Survey from June 25/67 to the present date
No. 1997		2nd. On the plating during the progress of rivetting	
Date Aug 15/67		3rd. When the beams were in and fastened, and before the decks were laid	
Order for Ordinary Survey	as per Section 18.	4th. When the ship was complete, and before the plating was finally coated	
No. —		5th. After the ship was launched	

State if she has a Spar Deck Yes Peop or Forecastle

General Remarks. Spar Deck. The beams are of bulk iron $6\frac{1}{2} \times \frac{1}{8}$ spaced at every alternate frame with double angle irons on upper edge $2\frac{1}{2} \times 2\frac{1}{8}$. The struts on their sides are $30 \times \frac{1}{8}$ and angle irons on do $2\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{8}$. The fore and aft tie plates $9\frac{1}{2} \times \frac{1}{8}$. Two pairs of diagonal plates $9\frac{1}{2} \times \frac{1}{8}$. The sheer strakes are $45\frac{1}{2} \times \frac{1}{8}$ and divided for uppers of $\frac{3}{4}$ of length with $\frac{1}{8}$ plates $35\frac{1}{2}$ wide, the space between sheer strakes is $\frac{1}{16}$. The thickness of Main and Spar Decks have been reversed. The Spar deck being $4\frac{1}{2}$ of Pine. Main do $3\frac{1}{2}$. The accompanying sketch has been submitted by Mr. G. King for the sanction of Committee, and received their approval, (See Sec'ty Letter of the 26th March last) the principal Surveyors recommendations contained therein have been complied with.

The gross Tonnage of this vessel exceeds the calculation of the Board, in consequence of which the angle irons of Keelsons are less than the rules require this deficiency is in my opinion compensated for by the number of Keelsons exceeding those required by the Rules.

Delivery certificate of the Chain cables and Anchors issued from the Sunderland Public Docking House and signed by Mr. John Thompson, have been produced.

In what manner are the surfaces preserved from oxidation? Inside By Cement & Paints, and by Print above
Ditto ditto Outside By Paints

I am of opinion this Vessel should be Classed A 1

The amount of the Fee £ 5: : : is received by me,

Jan: 1/67 Special £ 75: 17: "

Certificate (if required) £ " : : "

Committee's Minute 21st January 1868

Character assigned

A 1

A.C.C.P.

Spar decked W.H.S.

Thos. A. Lawrence

This Spar deck is
in my opinion fit for the class
recommended above
W.H.S. A. 1. J.W.L.



Lloyd's Register
Foundation