

# IRON SHIPS.

No. 11000 Survey held at Newcastle Date, First Survey 2<sup>nd</sup> Oct 1871 Last Survey 20<sup>th</sup> March 1872 Rec 13/5/72 36 vials

On the S.S. Vanessa Master G. J. Martin

Tonnage under Tonnage Deck	995.21	ONE, OR TWO DECKED, DECKED VESSEL.	Half Moulded Breadth....	Built at	Newcastle
Net Tonnage	101.63	Half moulded breadth .... 14.9	Total Depth if three or more Decks .....	When built	1872 Launched 10 <sup>th</sup> Feb 1872
Gross Tonnage	1101.80	Depth from upper part of Keel to top of Upper Deck Beams ..... 19.1	Total Girth of Half Midship Frame .....	By whom built	Messrs Palmer & Co
Crew Space, as per Rule	62.24	Girth of Half Midship Frame (as per Rule) ... 30.9	3rd Number .....	Owners	Messrs. Tennick & Son
Engine Room	253.03	1st Number ..... 64.9	Length .....	Port belonging to	London
Register Tonnage, as a Steamer, cut on Beam	266.58	2nd Number .... 16549	4th Number ....	Destined Voyage	Matra
		Depths to Length. 14.3	Breadths to Length ..... 8.5	If Surveyed while Building, Afloat, or in Dry Dock.	Whit building

Length on deck as per Rule, 255 Feet. Inches. Moulded Breadth, 29 Feet. Inches. Depths from top of Floors to Upper and Main Deck Beams, as per Rule ..... 17 Feet. Inches. Horse. 190 No. of Decks with flat laid One No. of Tiers of Beams Two

Dimensions of Ship per Register, length, 255.0 breadth, 30.0 depth, 17.25

	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 .....	9 x 2 1/2	8 1/2 x 2 1/2	Do. if centre through plate, depth and thickness .....	8 x 2 1/2	8 x 2 1/2	
Stem, if bar iron, moulding and thickness .....	8 x 2 1/2	8 x 2 1/2	Stern-post for Rudder do. do. ....	9 x 4 1/2	8 x 5	
Stern-post for Propeller .....	9 x 4 1/2	8 x 5	Distance of Frames from moulding edge to moulding edge, all fore and aft .....	23	(Class 10A)	
Frames, size of Angle Iron, for 1/2 length amidships	4 3 7	4 3 7	Do. for 1/2 at each end .....	4 3 6	4 3 6	
Reversed Frames, size of Angle Iron .....	3 3 7	3 3 6	Floors, depth and thickness of Floor Plate at mid line for half the length amidships .....	19 1/2	18 0	
Do. at the ends .....	19 7	7	Do. do. do. at Bilge Keelson	9 1/2	3 0	
Do. height extended at the Bilges .....	3 3	3 0	Beams, Upper, Spar, or Awning Deck (No. 63) single or double Angle Iron, Plate or Tee Bulb Iron .....	7 1/2 7	7 1/2 7	
Single or double Angle Iron on Upper edge	3 2 1/2 6	3 2 1/2 5	Average space .....	3 10	3 10	
Beams, Main or Middle Deck (No. 63) single or double Angle Iron, Plate or Tee Bulb Iron	7 1/2 7	7 1/2 7	Single or double Angle Iron, on Upper Edge	3 2 1/2 6	3 2 1/2 5	
Average space .....	3 10	3 10	Beams, Lower Deck, Hold or Orlop (No. 41) single or double Angle Iron, Plate or Tee Bulb Iron	7 1/2 7	7 1/2 7	
Single or double Angle Iron on Upper Edge	3 2 1/2 6	3 2 1/2 5	Average space .....	3 10	3 10	
Keelson Centre line, single or double plate, box, or Intercoastal, size of Plates .....	26 9	26 8	Do. Bulb Plate to Intercoastal Keelson .....	14 6	14 6	
Do. Bulb Plate to Intercoastal Keelson .....	14 6	14 6	Do. Size of Angle Irons .....	5 3 1/2 9	5 3 1/2 9	
Do. Side Intercoastal Keelson, size of Plates .....	5 3 1/2 9	5 3 1/2 9	Do. Angle Irons on tops of Floors .....	5 3 1/2 9	5 3 1/2 9	
Do. Bilge Keelson, Bulb Iron .....	5 3 1/2 9	5 3 1/2 9	Do. do. Intercoastal plates riveted to plating for length .....	5 3 1/2 9	5 3 1/2 9	
Do. do. do. Angle Irons .....	5 3 1/2 9	5 3 1/2 9	Side Stringers (No. 1) size of Angle Irons	5 3 1/2 9	5 3 1/2 9	
Do. Intercoastal plates riveted to plating for length .....	5 3 1/2 9	5 3 1/2 9				

Transoms, material Iron or, if none, in what manner compensated for.  
 Knight-heads Iron Hawse Timbers Iron  
 Windlass Iron Patent Pall Bitt

The Frames extend in one length from Keel to gunwales Riveted through plates with (3/4 in.) Rivets, about 6 1/2 apart.  
 The Reverse Angle Irons on the floors and frames extend across the middle line of 1/2 length and to 8 1/2 ditto alternately  
 Keelsons. Are the various lengths of Plates and Angle Irons properly connected? Yes And are their butts properly shifted? Yes

Plates, Garboard, double or Riveted to Keel, double or at upper edge, with Rivets (1/2 in.) diameter, averaging (5 1/2 ins.) from centre to centre.  
 Do. Edges from Garboards to upper part of Bilge, worked Clencher, double or single Riveted; with Rivets (3/4 in.) diameter, averaging (3 1/2 ins.) from centre to centre.  
 Do. Butts from Keel to turn of Bilge, worked carvel with butt straps to strakes (1 1/2) thick, double or single Riveted; with Rivets (3/4 in.) diameter averaging (3 1/2 ins.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below? No  
 Do. of 3 Strakes at Bilge for Half length, treble riveted with Butt Straps 1 1/2 thicker than their plates.  
 Do. Edges from bilge to Main Sheerstrake, worked carvel with a lining piece ( ) thick, or clencher, double or single riveted; with rivets (3/4 in.) diameter, averaging (3 1/2 ins.) from centre to centre.  
 Do. Edges of Sheerstrake, Main, double or single Riveted. Upper, double or single Riveted. At upper edge Single At lower edge Double  
 Do. Butts from Bilge to Main Sheerstrake, worked Carvel with Butt Straps ( 9/16 ) thick, double or single Riveted; with Rivets ( 3/4 in.) diameter, averaging ( 3 1/2 ins.) from centre to centre.  
 Do. Butts of Main Sheerstrake, double or treble Riveted. Butts of Upper or Spar Sheerstrake, and Upper Deck Stringer Plate, double or treble Riveted for 1/2 length amidships. Breadth of laps of plating in double Riveting ( 4 1/2 ) Breadth of laps of plating in single Riveting ( 2 1/2 )

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? Double and treble as per rule  
 Planksheer, how secured to the plating of the sides. Waterway, how secured to the planksheer and to the Beams. (Explain by Sketch, if necessary.)  
 Beams of the various Decks, how secured to the sides? Secured down No. of Breasthooks, 4 Crutches, 3

What description of Iron is used for the Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Palmer Steel (Iron) Co. (Lancashire)  
 Manufacturer's name or trade mark,

We certify that the above is a correct description of the several particulars therein given.  
 Builder's Signature, W. G. Adams Surveyor's Signature, W. G. Adams

IRON 451-0045



Workmanship. Are the butts of plating planed or otherwise fitted? Planed  
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 single piece  
Do the holes for riveting 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 plate and punched from the faying surfaces? Yes  
Are there any rivets which either break into or have been put through the seams or butts of the plating? 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 riveting, quality of Materials, and if stamped with Maker's name.  
State also Length and Diameter of Lower Masts and Bowsprit Fore 70' x 21 1/4" dia Main 72' 6" x 21 1/4" dia. Rig 54 x 14

The Fore, main & Mizzen masts are of iron. plates 7/16" thick. Edges double riveted. Butts double and triple riveted.

10084 Iron

Number for equipment		Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	N <sup>o</sup> .	Weight. Ex. Stock.	Test as per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.
N <sup>o</sup> .	SAILS.	CABLES, &c.										
	Fore Sails,	Chain		300	19/16	440.0.0	19/16	43 20	24.0.7	23.19.2.21	23.2.0	23 10
	Fore Top Sails,	(State Machine where Tested, and name of Superintendent).		Lloyds Type P.H. P. Russell			Lloyds Type P.H. P. Russell					
	Fore Topmast Stay Sails	Hempen Stream Cable					Stream					
	Main Sails,	Hawser		90	1		10.0.18					
	Towlines	...		90	10		5.0.10					
	Main Top Sails,	Warp		90	7		2.2.14					
	and	All good quality.		140	3							

Her Standing and Running Rigging from long sufficient in size and good in quality. She has 2 Life Long Boats and two others  
The present state of the Windlass is new Capstan new and Rudder good Pumps good

Engine Room Skylights.—How constructed? on crumplings How secured in ordinary weather? flusher with plate  
What arrangements are there for deadlights in such for bad weather? Solid shutters

Coal Bunker Openings.—How constructed? on lifts How are lids secured? lids How high above deck? 6 in

Scuppers, &c.—What arrangements are there beyond the scuppers on deck, for clearing upper deck of water, in case of a sea coming on board? Scuppers on each side.

Cargo Hatchways.—How formed? on crumplings State size 16.9 x 9.0 & 14.9 x 9.0  
If of extraordinary size, state how framed and secured? Reinforcing ribs. Framed with heavy beams.

What arrangement for shifting beams? For shifting beams.  
Hatches, themselves, whether strong and efficient? Yes Main Hatchways.—State size 16' 9" x 9' and 14.9 x 9'

Order for Special Survey No. 841 DATES of  
Date 26 June 1871 Surveys held  
Order for Ordinary Survey No. — while building  
Date — as per  
No. 285 in builder's yard. Section 18.  
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 riveting  
3rd. When the beams were in and fastened, and before the decks were laid  
4th. When the ship was complete, and before the plating was finally coated or cemented  
5th. After the ship was launched and equipped

General Remarks,

There is a double bottom in the Fore and Aft. Holds of the united length of 15.4 feet. The plates of inner bottom are 7/16" and the flange plates 7/16" thick.

Length of Forecastle 39 feet, Length of raised Quarter deck 80 feet

State if one, two or three decked vessel, or if spar or awning decked, and lengths of poop, fore-castle or raised quarter deck, or of double or part double bottom.  
In what manner are the surfaces preserved from oxidation? Inside cuprous & paint Outside Paint

I am of opinion this Vessel should be Classed 100 A 1 (pt double bottom)

The amount of the Entry Fee .....£ 5: : : is received by me,  
Special .....£ 53: : :  
Certificate .... : : :  
May 1871

(Travelling Expenses)  
(if any) £ —

Committee's Minute 11th May 1872

Character assigned 100 A 1

4. Heavy J. Tension when 44 Coal Exchange, F.C.

ADRIAN M.B.  
T.P.W. pt double bottom

Concur in the opinion that this ship should be classed 100 A 1.  
1871 Rules  
Lloyds Register  
Foundation