438

3937

IRON SHIPS.

Rec 12/1/65

No. 8277 Survey held at Sunderland Date 1st July 64 to 4th June 1865

In the Ship Warwick Master Trader

Tonnage under tonnage deck 897.69 Built at Pallion When built 1864 Launched 30th Nov 1864

Ditto of poop 107 ~~for spar deck~~

~~Ditto of engine room~~ By whom built Oswald & Co Owners Temperley & Co

Total Register tonnage 1005 - - Port belonging to London Destined Voyage Sea Madras

If Surveyed while Building, Afloat, or in Dry Dock Whilst building

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)	No. of Decks
107	2 -	34	2 -	20	6 -		Iron

Dimensions of Ship per Register, length 107.2 breadth 34.2 depth 20.6

	Inches in Ship.			Inches required per Rule.		
Keel, if bar iron, depth and thickness	10 × 2¼			7½ × 3		
,, ~~if plate iron, breadth and thickness~~						
Stem, if bar iron, moulding and thickness	10 × 2¼			7½ × 3		
,, ~~if plate iron, breadth and thickness~~						
Stern-post, if bar iron, moulding and thickness	10 × 2¼			7½ × 3		
,, ,, ~~if plate iron, breadth and thickness~~						
Distance of Frames from moulding edge to moulding edge, all fore and aft	21			21		
	Inches. In Ship.	Inches. In Ship.	16ths. In Ship.	Inches. required per Rule.	Inches. required per Rule.	16ths required per Rule.
Frames, Size of Angle Iron, single ~~or double~~	4¼	3¼	8	4½	3	8
,, ,, Reversed Iron, ~~if~~ to every frame and ~~for~~ every alternate frame	To Lower Deck 22 Upper Deck					
Floors, depth and thickness of Floor Plate at mid line	24	-	9	23	-	9
D° forward & aft	24	-	8	23	-	8
,, Ditto ditto at Bilge Keelson	6½		9	-	-	9
,, Size of Reversed Angle Iron, and No. one at top of Floor Plate	3	3	7	3	3	7
Beams, Deck (N° 53) ~~double Angle Iron, Plate, Tee, or~~ Bulb Iron	8	-	9	8		8
,, ,, double or single Angle Iron, on top edge	3	3	6	3	3	6
,, ,, average space between	3 ft	6 in		3 ft	6 in	
,, ~~Hold, or~~ Lower Deck (N°. 50) ~~double Angle, Tee, Plate, or~~ Bulb Iron	8	-	9	8	-	8
,, ,, double or single Angle Iron on top edge	3	3	6	3	3	6
,, ,, average space between	3 ft	6 in		3 ft	6 in	
,, ~~Paddle, sided and moulded, ___ thickness of Plate ___ size of Angle Iron~~						
,, ~~Engine~~ ,, ,, ,,						
Keelson, ~~single or double plate~~, box, ~~or intercostal~~ Foundation & top plates	18	-	9			
,, Size of Plates Side	17½	-	9	17½	-	9
,, Size of Angle Irons	3	3	7	3	3	7
,, Side, ~~single or d'ble, plate, box, or~~ intercostal	See Sketch					
,, Bilge (No. one) at each Bilge, ~~single, or~~ double, ~~plate, or box~~	6	3	8			
,, Intercostal Keelson. Plates angle irons 6 × 3 × 8			10			

	Inches. In Ship.	16ths. In Ship.	Inches. required per Rule.	16ths required per Rule.
Plates in Garboard Strakes, breadth and thickness	31	12	30	12
Except two plates 11/16 thick. See Secretary's letter 17th October 64				
Ditto from Garboard to upper part of Bilges	-	11		11
,, from upper part of Bilge to a perpendicular height from upper side of Keel of ⅗ths the entire depth of Hold		10		10
,, from ⅗ths depth of Hold to lower edge of Sheerstrake		9		9
,, Sheerstrake, breadth and thickness	31	11	30	11
Butt Straps to outside plating, breadth and thickness	10 / 8½	12 25 / 9 -	9¾ / 8¼	12 25 / 9
Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness	20½	9	20	9
Angle Iron on ditto	5½ × 4 × 4	9 × 8	5 × 4 × 4	8
Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways	12	9	12	9
Diagonal Tie Plates on ditto	12	9	12	9
Planksheer, materials and scantlings	None			
Waterway ditto ditto	Iron Gutter			
Flat of Upper Deck, thickness and material	4	Pine	4	
,, ,, how fastened to Beams	Screw & Bolt			
Ceiling betwixt Decks and in Hold, thickness and material	3	Deals	3	
Shifting on Lower deck stringer	16	8	Extra	
~~Clamps or Shifting~~ ~~ditto~~ Angle iron in ditto	4 × 4 × 4	9	5 × 4 × 8	
Stringer Plates on ends of ~~Hold or~~ Lower Deck Beams, breadth and thickness	24	9	21	9
Stringer or Tie Plates fore and aft outside Hatchways, on ~~Hold or~~ Lower Deck Beams and diagonals at bow ends	12	9	12	9
Stringers in Hold	6 × 3 × 8		5 × 4 × 8	
Flat of Lower Deck, thickness and material	2¾	Deals		
Main piece of Rudder, diameter at head	5¾		5¾	
,, ,, ,, at heel	3½		3	
(Can the Rudder be unshipped afloat Yes)				
Bulkheads, N°. 2 Thickness of 6/16		6	-	6
,, Height up to main deck line				
,, how secured to the sides of the ship Double frames				
,, size of vertical angle irons 3 × 3 × 7/16 and their distance apart 2/6				

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

Knight-heads, and Hawse Timbers Iron Lookheed

The Frames extend in one length from Keel to Upper Deck rivetted through plates with (7/8 in.) rivets, about (6) apart.

The reverse angle irons on the floors extend in one length across the middle line from Flat to Lower deck Stringer

,, ,, ,, on the frames ,, ,, ,, from Middle line to Upper deck Stringer

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

Plates, Garboard, double ~~or~~ rivetted to keel, double ~~or~~ rivetted at upper edge, with rivets (1¼ 7/8 ins.) diameter, averaging (3½ 2 5/8 in.) apart.

,, Edges from Garboards to upper part of bilge, worked clencher, double ~~or single~~ rivetted; with rivets (7/8 in.) diameter, averaging (2 3/4 ins.) apart.

,, Butts from Keel to turn of bilge, worked carvel with butt straps (7/8) thick, double ~~or single~~ rivetted; with rivets (7/8 in.) diameter, averaging (2¾ ins.) apart. Do the butt straps lap over and rivet through the lands of the strake below? at the strakes

,, Edges from bilge to sheerstrake, worked ~~carvel with a lining piece ( ) thick, or~~ clencher, double ~~or single~~ rivetted; with rivets (¾ in.) diameter, averaging (2¾ in.) apart. Do the butt straps lap over and rivet through the lands of the strake below? at the 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 (11/16 & 9/16) thick, double ~~or single~~ rivetted; with rivets (¾ in.) diameter, averaging (2¾ ins.) apart. Breadth of laps in double rivetting (8") ~~Breadth of laps in single rivetting ( )~~

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

Planksheer, how secured to the plating of the sides } Explain by sketch if necessary. } Iron gutter & Railway

Waterway ,, ,, planksheer and to the Beams

Deck Beams, how secured to the side? Forged brackets Rivetted to frames

~~Hold or~~ Lower Deck ditto do. do.

~~Paddle~~ ,, ,, No. of breasthooks Six crutches Three

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

Manufacturer's name or trade mark Bolckow & Vaughan

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

Builder's Signature J. Oswald *Surveyor's Signature* W. Langley

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IRON438-0092

Iron 3937

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? They are

Do the edges of the carvel work and of the butts fay close together throughout their length without requiring any making good of deficiencies? They do

Do the fillings between the ribs and plates fill in solid with single pieces? or are they in short lengths of various thicknesses? Single pieces

Do the holes for rivetting plate to frames, butt straps, or plate to plate, &c., conform well to each other? They do 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? a few, at corners of bulks

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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 masts and bowsprit are of iron, and the lower yards of steel.

Dia 27. Plates 6 3/4 7/16. Angle irons (3) 4×3×7/16

Butts double Middle

Dia 17 3/4

Plates 3 1/4 7/16 Angle irons 2½×2½×5/16

Rhoderiger Howells & Co. Makers of plates.

Blackow & Vaughan Makers of Angle irons

She has SAILS.

No.	
2 Sets	Fore Sails,
	Fore Top Sails,
	Fore Topmast Stay Sails,
	Main Sails,
	Main Top Sails,
and	

CABLES, &c.

	Fathoms.	Inches.	Tested to Tons.
Chain ..... *	300	1¾	55 1/10
~~Hempen~~ Stream Cable	60	1	
Hawser	90	4	
Towlines	90	9	
Warp	90	5½	

All of Good quality.

ANCHORS, and their weights.

	Ca stock	No.	With stock Weight.	Tested to Tons.
Bowers, ... *	31.2.0	3	39.0.14	34
	31.2.0		39.0.0	34
	27.2.8		33.3.8	34
Stream, ...		1	11.3.0	
Kedges, ...		2	6.1.21	
			3.1.0	

Her Standing and Running Rigging Hue hemp sufficient in size and good in quality.

She has One Long Boat and Three others

The present state of the Windlass is Good Capstan Good and Rudder Good Pumps 1 Robsons Patent

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Order for Special Survey No. 1669 Date June 24/64

Order for Ordinary Survey No. —— Date ——

DATES of Surveys held while building as per Section 18.

1st. On the several parts of the frame, when in place, and before the plating was wrought Butt welds

2nd. On the plating during the progress of rivetting Special Survey Lat. Copper

3rd. When the beams were in and fastened, and before the decks were laid the 4th July 1864

4th. When the ship was complete, and before the plating was finally coated

5th. After the ship was launched the 4th June 1865

~~State if~~ she has a ~~Spar Deck~~ Full Poop and Gallant ~~or~~ Forecastle

General Remarks, The poop beams are rounded down at their ends and are formed of Angle irons 6×3×9/16 with 3×2½×5/16 riveted thereto; outside plating ⅜ edges single rivetted butts double rivetted, the beams of the forecastle are of angle iron 7½×7/16 with double angle irons 2½×2½×5/16. Stringer plate 18½×7/16

The breast hooks are connected to the outside plating between the frames.

The two 7/16 plates in the garboard strakes are butt strapped as required in the Secretary's letter of the 17th October 1864.

This is a sister ship to the "Lincoln" and Dolbadern Castle Nos. 8163 and 7982.

The main piece of rudder is ¼ of an inch less in diameter than in accordance with the amendment of the rules for the gross tonnage.

In what manner are the surfaces preserved from oxidation? Inside Portland cement & paint

Ditto ditto Outside Paint and composition

I am of opinion this Vessel should be Classed A 1

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

Jan. Special .....£ 50 : 5 : "

Certificate (if required) .....£ " : " : "

W. S. Rampson

Committee's Minute 13th January 1865

Concur in the above recommendation 13th Jan. 1865

Character assigned A 1

* Certificates of the testing of Anchors & Chains have been produced to surveyor by Mr. John Thompson

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