48134

IRON SHIPS.

Rec 9/7/66

No. 8776 Survey held at Sunderland Date 25th April 1866

on the Screw Steamer Thetis Master Jones

Tonnage under tonnage deck 497.58 | Built at Sunderland | When built 1865 & 1866 Launched Mar. 29/66

Ditto of poop ~~or spar deck~~ 50.58 | By whom built Pile Hay & Co | Owners Ryde & Co

Ditto of engine room 121.47

Total Register tonnage 426.69 | Port belonging to London | Destined Voyage Mediterranean

Gross tonnage 548.16

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

Length aloft	Feet. 179	Inches. 4	Extreme Breadth	Feet. 27	Inches. 2	Depth from top of Upper Deck Beam to top of Floor	Feet. 15	Inches. 3	Power of Engines	Horse. 90	N°. of Decks One & poop

(11 3/4 ⊗)

(Dimensions of Ship per Register, length 179.4 breadth 27.2 depth 15.25) 400 ton Scale

	Inches in Ship.			Inches required per Rule.		
Keel, if bar iron, depth and thickness	8 × 2 1/8			6 3/4 × 2 1/2		
,, ~~if plate iron, breadth and thickness~~ Keel	8 × 4			6 3/4 × 5		
Stem, if bar iron, moulding and thickness	8 × 2 1/8			6 3/4 × 2 1/2		
,, ~~if plate iron, breadth and thickness~~						
Stern-post, if bar iron, moulding and thickness	8 × 4 1/8			6 3/4 × 5		
,, ,, ~~if plate iron, breadth and thickness~~	8 × 4			6 3/4 × 5		
Distance of Frames from moulding edge to moulding edge, all fore and aft	23			23		
	Inches. In Ship.	Inches. In Ship.	16ths. In Ship.	Inches. required per Rule. for 400 tons Scale	Inches. required per Rule.	16ths required per Rule.
Frames, Size of Angle Iron, single or double (Double Frames at bottom in midships)	3 1/2	2 3/4	7/16	3 1/2	2 3/4	7/16
,, Reversed Iron, ~~if~~ to every frame ~~or~~ every alternate frame (above bilge & amidships)	2 3/4	2 3/4	6/16	2 3/4	2 1/2	6/16
Floors, depth and thickness of Floor Plate at mid line	18	7/16	–	17 1/2	–	7/16
,, Ditto ditto at Bilge Keelson	9	–	–	–	–	–
,, Size of Reversed Angle Iron, and No. 1 at top of Floor Plate	2 3/4	2 3/4	6/16	2 3/4	2 1/2	6/16
Beams, Deck (N°. 47) ~~double Angle Iron, Plate, Tee, or~~ Bulb Iron (clean, Bulkheads & half Beam)	6 1/2	7/16	–	6 1/2	7/16	
,, ,, double ~~or single~~ Angle Iron, on Top edge	2 1/2	2 1/2	5/16	2 1/2	2 1/2	5/16
,, ,, average space between	46	–	–	46		
,, Hold, or Lower Deck (N°. 29) ~~double Angle, Tee, Plate, or~~ Bulb Iron	6 1/2	7/16	–	6 1/2	7/16	
,, ,, double ~~or single~~ Angle Iron on Top edge	2 1/2	2 1/2	5/16	2 1/2	2 1/2	5/16
,, ,, average space between	46 & 92		except in the Hatches	46 & 92		
,, ~~Paddle, sided and moulded, ___ thickness of Plate ___ size of Angle Iron~~						
,, Engine ,, ,, ,, ,,				500 ton Scale		
Keelson, single ~~or double~~ plate, ~~box~~, or intercostal (for 9 in above the floors & double angle iron on top & bottom)	23	10/16		24	8/16	
,, Size of Plates						
,, Size of Angle Irons	4	3 3/4	7/16	4 1/4	3 1/4	7/16
,, ~~Side, single or d'ble, plate, box, or intercostal~~						
,, Bilge (No. 1 angle iron) at each Bilge, single, or double, ~~plate~~, or box	4	3 3/4	8/16	4 1/4	3 1/4	7/16

	Inches. In Ship.	16ths. In Ship.	Inches. required per Rule.	16ths required per Rule.
Plates in Garboard Strakes, breadth and thickness	34	9	30	9
Ditto from Garboard to upper part of Bilges	–	8	–	8
,, from upper part of Bilge to a perpendicular height from upper side of Keel of 3/5ths the entire depth of Hold	–	7	–	7
,, from 3/5ths depth of Hold to lower edge of Sheerstrake	–	6	–	6
,, Sheerstrake, breadth and thickness	33	10	30	10
Butt Straps to outside plating, breadth and thickness	26 – 9 1/2 – 8			9-8-7-6/16
Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness	26	7 full		25 1/2 – 7
Angle Iron on ditto	4	3 3/4	7 full	4 × 3 – 6/16
Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways	9	8 & 7	full	9 1/4 – 7
Diagonal Tie Plates on ditto	9	8		9 1/4 × 7
Planksheer, materials and scantlings				
Waterway ditto ditto	Gutter Gunwale			–
Flat of Upper Deck, thickness and material	3 1/2	Pine		3
,, ,, how fastened to Beams	Screw bolts & Nutts			
Ceiling betwixt Decks and in Hold, thickness and material	2 1/2	Red & Yellow Pine		
Clamps or Spirketting ditto	–	–	–	–
Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness	21	7	19	7
Stringer or Tie Plates fore and aft outside Hatchways, on Hold or Lower Deck Beams	4 × 3 – 6/16		3	Double angle iron 3 – 6/16
Stringers in Hold ~~Double angle iron~~	4 × 3 – 7/16		In excess of Rule	
Flat of Lower Deck, thickness and material	–	–	–	–
Main piece of Rudder, diameter at head	4 1/2	–	4 1/2	–
,, ,, ,, at heel	2 3/4	–	2 3/4	–
(Can the Rudder be unshipped afloat Yes)	–	–		–
Bulkheads, N°. 5 Thickness of 6/16 & 5/16	–	–	–	–

,, Height up Upper Deck

,, how secured to the sides of the ship Double Frames

,, size of vertical angle irons 3 × 3 – 6/16 and their distance apart 2 ft 6 in

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 (6) apart.

The reverse angle irons on the floors extend in one length ~~across the~~ middle line ~~from~~ from to above top of bilge on alternate frames ,, ,, ,, on the frames ,, ,, ,, from Middle line to Gunwale on alternate frames

Keelson, how are the various lengths of plates or angle irons connected? Butt Straps

Plates, Garboard, double ~~or~~ rivetted to keel, double ~~or~~ 1 1/8 Rivet 4 & 4 1/2 in apart at upper edge, with rivets (3/4 ins.) diameter, averaging (2 1/2 in.) apart.

,, Edges from Garboards to upper part of bilge, worked clencher, double ~~or single~~ rivetted; with rivets (3/4 in.) diameter, averaging (2 1/2 & 3 ins.) apart.

,, Butts from Keel to turn of bilge, worked carvel with butt straps (9 28/16) thick, double ~~or single~~ rivetted; with rivets (3/4 in.) diameter, averaging (2 1/4 & 2 1/2 ins.) apart. Do the butt straps lap over and rivet through the lands of the strake below? Alternate Straps

,, 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 (2 1/4 & 2 1/2 in.) apart. Do the butt straps lap over and rivet through the lands of the strake below? Alternate Straps

Edges of Sheerstrake, double ~~or single~~ rivetted? At upper edge In Gunwale angle Iron At lower edge Double

,, Butts from bilge to planksheers, worked carvel with butt straps (9 1/2 – 8 8-7-6/16) thick, double ~~or single~~ rivetted; with rivets (3/4 in.) diameter, averaging (2 1/4 & 2 1/2 ins.) apart. Breadth of laps in double rivetting (4 in) Breadth of laps in single rivetting (2 1/2)

(Sheerstrake Butt Straps 26 in (double 8 in) Butt Straps)

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

Planksheer, how secured to the plating of the sides } Explain by sketch if necessary. } Gutter Gunwale

Waterway ,, ,, planksheer and to the Beams

Deck Beams, how secured to the side? Rivetted to Frames & Stringer Plate

Hold or Lower Deck ditto Rivetted to Frames & Stringer Plate

~~Paddle~~ ,, ,, No. of breasthooks ~~& frame fast connected~~ Keelson & Stringer fore & aft crutches

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

Manufacturer's name or trade mark Bulb iron Bolckow Vaughan & Co. Plates. Fox, Head, & Co

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

Builder's Signature Bolckow Vaughan & Co *Surveyor's Signature* Senhouse Martindale

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IRON439-0457

4834 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 fay close together throughout their length without requiring any making good of deficiencies? Well fitted

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

Do the holes for rivetting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes Generally 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 only.

Her Masts, Bowsprit, Yards, &c., are in Wood & 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.*

She has SAILS. Single & Double

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

CABLES, &c.

	Fathoms.	Inches.	Tested to Tons.
Chain	240	1¼	28½
Hempen Stream Cable	80	6½	
Hawser	80	5½	
Towlines	80	3½	
~~Warp~~ ~~Chain Hawser~~	75	7/8	

All of Good quality.

ANCHORS, and their weights.

	No.	Weight. Ex. Stock	Tested to. Tons.
Bowers, Rodgers	3	13.3.0	15.8.0.16
"		13.2.0	15.3.3.0
Trotmans		11.2.0	13.7.2.0
Stream,	1	6.0.21	
Kedges,	2	3.0.16	
		1.2.18	

Her Standing and Running Rigging Wire & Hemp sufficient in size and good in quality.

She has 2 Life Boats ~~Long Boat~~ and 2 Others

The present state of the Windlass is Iron ~~Capstan~~ Winch and Rudder Iron Pumps 4 No. good

Order for Special Survey No. 1795 Date Decem. 20/65

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 — Built under
2nd. On the plating during the progress of rivetting — Special Survey
3rd. When the beams were in and fastened, and before the decks were laid — from Decem. 18th/65
4th. When the ship was complete, and before the plating was finally coated — to the present
5th. After the ship was launched — date

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

General Remarks,

The Middle Line Keelson is Intercostal & also stands above the floors as well with double angle Iron on top and bottom. The Sheerstrake butts are double plates, the inner one 26 In long extending from frame to frame.

There is a double angle Iron Stringer in lower hold between the bilge Keelson and lower hold beams in excess of the Rules.

The Main Hatch is about 19 feet long with a shifting beam in both Sects.

The testing certificates of Anchors and chain cables, have been produced, issued from the Sunderland public testing machine, and signed by Mr. Jno. Thompson

James Siburn

In what manner are the surfaces preserved from oxidation? Inside Red paint & Cement

Ditto ditto Outside Red paint

I am of opinion this Vessel should be Classed ✠ A 1

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

July 1866 Special .....£ 27 : 8 : "

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

Committee's Minute 10th July 1866.

Character assigned A 1 (A & R)

Mb. MA

Confirmed

This Vessel appears eligible to be classed A 1 9 July 1866 MR

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