

# IRON SHIPS.

Rev. 27/8/68

No. 2840 Survey held at Penfleur Date 25<sup>th</sup> August 1868  
 on the Iron Screw Steamer *Lease* Master *Olsen*  
 Tonnage under tonnage deck 353.36  
 Ditto of poop ~~or~~ or spar deck 26.13 Built at Penfleur When built 1868 Launched Aug 7<sup>th</sup> 1868  
 Ditto of engine room 151.51 By whom built *London & Hull* Owners *Claudius Steam Shipping Co*  
 Total Register tonnage 356.77  
 Gross Tonnage 412.98 Port belonging to *Carthage* Destined Voyage *Baltic*  
 If Surveyed while Building ~~8 Aftost~~ or in Dry Dock ~~not~~ *before building and afloat*

**PLANS CASE**

Feet.	Inches.	Feet.	Inches.	Depth from top of Upper Deck Beam to top of Floor	Feet.	Inches.	Horse.	No. of Decks
length aloft	101	Extreme Breadth	24 0		14 0	3	80	1
Dimensions of Ship per Register, length	101	breadth	24 0	depth	14 0	3		
Keel, if bar iron, depth and thickness.....		Inches in Ship.		Inches required per Rule.				
" if plate iron, breadth and thickness .....		14 2 1/4		6 1/4 x 2 1/2				
Stem, if bar iron, moulding and thickness .....		14 2 1/4		6 1/4 x 2 1/2				
" if plate iron, breadth and thickness .....		14 2 1/4		6 1/4 x 2 1/2				
Stern-post, if bar iron, moulding and thickness .....		14 2 1/4		6 1/4 x 2 1/2				
" " if plate iron, breadth and thickness .....		14 2 1/4		6 1/4 x 2 1/2				
Distance of Frames from moulding edge to moulding edge, all fore and aft .....		21		21				
Frames, Size of Angle Iron, single <del>or</del> double ..	1 1/2	5	1/2	3 1/4 2 1/4	6 1/2			
" Reversed Iron, <del>to</del> every frame and <del>or</del> every <del>the</del> frame.....	2 1/2	2 1/2	5	2 1/2 2 1/2	6 1/2			
Floors, depth and thickness of Floor Plate at mid line .....	10	1/2	10	15 1/2	10			
" Ditto ditto at Bilge Keelson	4	1/2	4	1/2	10			
" Size of Reversed Angle Iron, and No. 1/2 at top of Floor Plate	2 1/2	2 1/2	10	2 1/2 2 1/2	6 1/2			
Beams, Deck (Nº) double Angle Iron, Plate, Tee, or Bulb Iron .....	6	1/2	6	6	6			
" double or single Angle Iron, on <del>upper</del> edge.....	2 1/4	2 1/4	10	2 1/4 2 1/4	6 1/2			
" average space between .....	5.6		5.6					
" Hold, or Lower Deck (Nº) double Angle, Tee, Plate, or Bulb Iron	5	1/2	5	6	6			
" double or single Angle Iron on <del>edge</del> .....	2 1/4	2 1/4	10	2 1/4 2 1/4	6 1/2			
" average space between .....	5.6		5.6					
" Paddle, sided and moulded, thickness of Plate size of Angle Iron								
" Engine " " " .....								
Keelson, single <del>or</del> double plate, box, or intercostal								
" Size of Plates .....	10 1/2	1/2	10 1/2	10 1/2	10 1/2			
" Size of Angle Irons .....	4 1/2	1/2	4 1/2	4 1/2	4 1/2			
" Side, single or double, plate, box, or intercostal								
" Bilge (No. 1) at each Bilge, single, or double, plate, or box .....	4	1/2	4	1/2	4	1/2		

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

Knight-heads, and Hawse Timbers *Plates and frames*

The Frames extend in one length from *Bil* to *Gumwale*

The reverse angle irons on the floors extend in one length across the middle line from *Stringer* to *Stringer* to *Gumwale* to *Gumwale* on alternate frames

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

Plates, Garboard, double ~~or~~ riveted to keel, double ~~or~~ at upper edge, with rivets (2 1/2 ins.) diameter, averaging (2 1/2 ins.) apart.

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

" Butts from Keel to turn of bilge, worked carvel with butt straps (1 1/2 ins.) thick, double ~~or~~ single riveted; with rivets (3/4 in.) diameter, averaging (2 1/2 ins.) apart.

Do the butt straps lap over and rivet through the lands of the stave below? *No*

" Edges from bilge to sheerstrake, worked carvel with a lining piece (1 1/2 ins.) thick, or clencher, double ~~or~~ single riveted; with rivets (3/4 in.) diameter, averaging (2 1/2 ins.) apart.

Do the butt straps lap over and rivet through the lands of the stave below? *No*

" Edges of Sheerstrake, double or single riveted? At upper edge *Single* At lower edge *Double*

" Butts from bilge to plankshears, worked carvel with butt straps (1 1/2 ins.) thick, double ~~or~~ single riveted; with rivets (3/4 in.) diameter, averaging (2 1/2 ins.) apart. Breadth of laps in double riveting (5 1/2 ins.) Breadth of laps in single riveting (5 1/2 ins.)

Butt Straps of Keelsons, Stringer and Tie Plates, double or single riveted? *Double Riveted*

Planksheer, how secured to the plating of the sides Explain by sketch *Iron Bulwarks*

Waterway " " planksheer and to the Beams if necessary *Gutta Waterway*

Deck Beams, how secured to the side? *Welded Arms riveted to the frames*

Hold or Lower Deck ditto *✓*

Paddle " " No. of breasthooks 5 crutches 5

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

Manufacturer's name or trade mark *Making Blockham*

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

Builder's Signature *Signed Anderson Bullock* Surveyor's Signature *J. H. Kettle*

IRON442-0446

6478 En

**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? Yes

Do the holes for rivetting plate to frames, built 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? Yes

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. Jacky at  
Chelmsford 1st April 1868, Tested by Mr. F. J. Gurney at  
and by Mr. Taylor at Glasgow. Tested Public Machine 30th April  
1868*

N. <i>The complete vessel</i>	She has SAILS.	CABLES, &c.	Fathoms	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c	N. No.	Weight. Ex. Stock.	Test as per Certificate.	Wght req'd per Rule.	Test req'd per Rule.
	Fore Sails,	Chain	210	118	22 1/4	1 1/8	22 1/4	Bowers	5	10.3.2.1	12.12.0.14.10.0.0	12 ton	
	Fore Top Sails,	Stream Chain	90	19 1/2						2.0.14			
	Fore Topmast Stay Sails	Hempen Stream Cable	00	7						10.2.0	12.8.3.0	10.0.0	12 ton
	Main Sails,	Hawser	00	5						2.0.1			
	Main Top Sails,	Towlines	00	4						0.2.0	10.12.2.0.8.2.0	10 1/2 ton	
	and	Warp	90	3 1/2						1.2.6			
		All of <i>good</i> quality	90	2 1/2				Kedges	2	2.1.0	2.1.0	2.1.0	

Her Standing and Running Rigging ~~is sufficient~~ *sufficient* in size and good in quality.

She has One 21.0 Long Boat and Two 20 Life Boats of One 10 Ton Dry Heavy  
The present state of the Windlass is new Capstan new and Rudder new Pumps new Efficient

- Order for Special Survey      DATES of Surveys held while building
- No. 553      Date 23rd March 1868      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 from the  
 3rd. When the beams were in and fastened, and before the decks were laid      28th April 1868 until  

Order for Ordinary Survey      as per Section 18.

No. ✓      Date ✓      4th. When the ship was complete, and before the plating was finally coated      the 25th August  
 5th. After the ship was launched      1868

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

**General Remarks.** Has a Water Ballast tank amidships 20' 0" long. The beams the same size as main deck spaced 3' 6" apart and the top is plated with 3/8" plates. Lands and butts single clinch riveted, and a Water Ballast tank forward similarly constructed to the tank amidships. Has fitted at sum of Bulge outside at fee Buck Bar 10x5x9/16 for a lay of 8' 0". The Hold beams are formed of Lyle Bars 5x3x9/16 spaced 3' 6" apart instead of as per Rule 8x6x6 with double Angle Bars 2 1/4x2 1/4x7/16 fastened to every 4<sup>th</sup> frame. This arrangement was submitted and sanctioned as per Secretary's letter dated 18<sup>th</sup> March 1868. Has a stronger Plate of 10x9/16 and 3 Angle Bars 4x3x9/16 as substitutes for Hold Beams in Aft Hold and in Engine Room. This arrangement was submitted and sanctioned as per Secretary's letter dated 2<sup>nd</sup> May 1868. Mr. Martin's suggestion while on his tour of inspection have been carefully attended to. The Owners do not wish the new space decked off. In what manner are the surfaces preserved from oxidation? Inside Cortland Cement and Red Lead Outside Red Lead and Oil Paint

I am of opinion this Vessel should be Classed B1

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

*Ant. MC*      Special ..... £ 20 : 11 : -

Certificate (if required) ..... £ Gratis

Committee's Minute 28<sup>th</sup> August 1868

Character assigned B1

△ CP

This appears to be No. 22 in the Report recently made to Committee of Vessels soon building in Glasgow district. I am of opinion she is eligible for classification as recommended above. J. H. 27/8/1868

15/8/2019  
D. Lloyd's Register  
Classification