5213

IRON SHIPS.

Rec 6/12/66

No. 10138 Survey held at Newcastle Date 17th May to 5th December 1866

on the S. S. "Thyra" Master

Tonnage under tonnage deck 652.30 Built at Newcastle When built 1866 Launched 8th Nov. 1866

~~Ditto of poop~~ ~~or spar deck~~

Ditto of engine room 208.73 By whom built A. Leslie & Co. Owners Anglo Danish Company

Total Register tonnage 443.57

Gross Tonnage 652.30 Port belonging to London Destined Voyage Copenhagen

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

	Feet.	~~Inches.~~		Feet.	~~Inches.~~		Feet.	~~Inches.~~		Horse.	
Length aloft	210.	3	Extreme Breadth	28.	2	Depth from top of Upper Deck Beam to top of Floor	15.	1	Power of Engines	90	N°. of Decks one

(*Dimensions of Ship per Register*, length 210.3 breadth 28.2 depth 14.9)

	Inches in Ship.			Inches required per Rule. for 600 tons Scale.		
Keel, if bar iron, depth and thickness	7 × 2¾			7 × 2¾		
,, ~~if plate iron, breadth and thickness~~						
Stem, if bar iron, moulding and thickness	7 × 2¾			7 × 2¾		
,, ~~if plate iron, breadth and thickness~~						
Stern-post, if bar iron, moulding and thickness	8⅝ × 4½			7 × 5½		
,, ,, ~~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~~	4	3	7/16	4	3	7/16
,, ,, Reversed Iron, ~~if~~ to every frame ~~or every frame~~	3	2¾	6/16	3	2¾	6/16
Floors, depth and thickness of Floor Plate at mid line	17½	8/16 &	7/16	17¾	8/16 &	7/16
,, Ditto ditto at Bilge Keelson	9½	–	–	–	–	–
,, Size of Reversed Angle Iron, and No. 1 at top of Floor Plate	3	2¾	6/16	3	2¾	6/16
Beams, Deck (N°. 45) ~~double Angle Iron, Plate, Tee, or~~ Bulb Iron		7	7/16		7	7/16
,, ,, double ~~or single~~ Angle Iron, on top edge	2½	2½	5/16	2½	2½	5/16
,, average space between	3 feet 6 inches					
,, Hold, or Lower Deck (N°. 28) ~~double Angle, Tee, Plate, or~~ Bulb Iron		7	7/16		7	7/16
,, ,, double ~~or single~~ Angle Iron on top edge	3	2¾	6/16	3	2¾	6/16
,, ,, average space between	2nd and 4th frames					
,, Paddle, sided and moulded, ____ thickness of Plate ____ size of Angle Iron						
,, Engine ,, ,, ,, ,,						
Keelson, ~~single or double plate, box, or~~ intercostal		22	8/16		22	8/16
,, Size of ~~Plates~~ Bulb iron		7¼	7/16			
,, Size of Angle Irons	4½	3½	7/16	4½	3½	7/16
,, Side, single or d'ble, plate, box, or intercostal double angle iron						
,, Bilge (No. 1) at each Bilge, ~~single, or double, plate, or box~~	4½	3½	7/16	4½	3½	7/16

Bulb iron between 7¼ × 7/16 for 105 feet

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

Knight-heads, and Hawse Timbers Plate

	Inches. In Ship.	16ths. In Ship.	Inches. required per Rule.	16ths required per Rule.
Plates in Garboard Strakes, breadth and thickness	31	10/16	30	10/16
Ditto from Garboard to upper part of Bilges		9/16		9/16
,, from upper part of Bilge to a perpendicular height from upper side of Keel of ⅗ths the entire depth of Hold		8/16		8/16
,, from ⅗ths depth of Hold to lower edge of Sheerstrake		7/16 & 6/16		7/16 & 6/16
,, Sheerstrake, breadth and thickness	38	10/16	30	9/16
Butt Straps to outside plating, breadth and thickness (doubled for ¾ths length)	32 / 9½ to	7/16 / 9 × 10/16 & 7/16		
Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness	38	8/16	30	10/16 & 8/16
Angle Iron on ditto	4½ × 3½ × 7/16		4½ × 3½ × 7/16	
Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways	10½	8/16	10½	8/16
Diagonal Tie Plates on ditto	10½	8/16	10½	8/16
Planksheer, materials and scantlings				
Waterway ditto ditto	Gutter Waterway			
Flat of Upper Deck, thickness and material	3½	Pine	3½	
,, ,, how fastened to Beams	Nut & screw bolts			
Ceiling betwixt Decks and in Hold, thickness and material	2½ Amboina to bilge 1½ Red Pine above bilge			
Clamps or Spirketting ditto				
Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness	22	8/16	22	8/16
Stringer or Tie Plates fore and aft outside Hatchways, on Hold or Lower Deck Beams Angle iron	4½ × 3½ × 7/16		4½ × 3½ × 7/16	
Stringers in Hold double angle iron	4½ × 3½ × 7/16		4½ × 3½ × 7/16	
Flat of Lower Deck, thickness and material				
Main piece of Rudder, diameter at head	5	–	4¾	–
,, ,, ,, at heel	3	–	2¾	–

(*Can the Rudder be unshipped afloat* Yes)

Bulkheads, N°. 6 Thickness of 6/16

,, Height up 5 to main deck, after one to Hold beams, iron decked over

,, how secured to the sides of the ship double frames

,, size of vertical angle irons 3 × 2¾ × 7/16 and their distance apart 30 inch

The Frames extend in one length from Keel to Gunwale rivetted through plates with (¾ in.) rivets, about (5½) apart

The reverse angle irons on the floors extend in one length ~~across~~ from the middle line ~~from~~ to Hold ~~to~~ beam three plates, and on

,, ,, ,, on the frames ,, ,, ,, from ~~to~~ alternate frames to main deck

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

Plates, Garboard, double ~~or~~ rivetted to keel, ~~double or~~ and at upper edge, with rivets (1⅛ & ⅞ ins.) diameter, averaging (4 & 3 in.) apart.

,, Edges from Garboards to upper part of bilge, worked clencher, double ~~or single~~ rivetted; with rivets (¾ in.) diameter, averaging (2¾ ins.) apart.

,, Butts from Keel to turn of bilge, worked carvel with butt straps (10 to 9/16) thick, double ~~or single~~ rivetted; with rivets (¾ in.) diameter, averaging (2¾ ins) apart. Do the butt straps lap over and rivet through the lands of the strake below? no

,, 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? no

,, Edges of Sheerstrake, double ~~or~~ and single rivetted? At upper edge single At lower edge double

,, Butts from bilge to planksheers, worked carvel with butt straps (8/16 & 7/16) thick, double ~~or single~~ and triple rivetted; with rivets (¾ in.) diameter, averaging (2¾ ins.) apart. Breadth of laps in double rivetting (4½ & 4¼) Breadth of laps in single rivetting (—)

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

Planksheer, how secured to the plating of the sides
Waterway ,, ,, planksheer and to the Beams } *Explain by sketch if necessary.* } Gutter Waterway.

Deck Beams, how secured to the side? Bracket ends

Hold or Lower Deck ditto — do —

Paddle ,, ,, No. of breasthooks 4 crutches 4

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

Manufacturer's name or trade mark Plate, beams & angle iron, marked "Palmer's best Farrow"

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

Builder's Signature Andrew Leslie & Co *Surveyor's Signature* J. Harding

p. James Kinner

IRON440-0222
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5213 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? 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? Yes

Are there any rivets which either break into or have been put through the seams or butts of the plating? a 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 rivetting, quality of Materials, and if stamped with Maker's name.*

She has SAILS.

No.	
one complete suit	Fore Sails,
	Fore Top Sails,
	Fore Topmast Stay Sails,
	Main Sails,
	Main Top Sails,
and	

CABLES, &c., tested at "Lloyd's Lyne" Proving House (Signed) Robt Burrill Supt.

	No. on Chain seen by me.	No. and date on Certificate	Fathoms.	Inches.	Tested to. Tons.
Chain	1757	1757-2.11.66	105	1 3/8	34.0.0.0
~~Hempen~~	1788	1788-1.12.66	105	1 3/8	34.0.0.0
Stream Cable	1704	1704-25.9.66	30	1 3/8	34.0.0.0
Hawser	--	----	60	3/4	---
Towlines			90	8 1/2	
Warp			90	6	
All of good quality.			90	4	

ANCHORS, tested at "Lloyd's" Tipton Proving house (Signed) S. Spregenna Supt.

	No.	No. on Anchor seen by me.	No. and date on Certificate.	Weight. Ex. Stock.	Tested to. Tons.
Bowers	1	2829	2829-7.11.66	17.1.8	18.10.2.14
	1	2828	2828-7.11.66	16.3.0	18.0.2.14
	1	2830	2830-7.11.66	14.1.0	15.16.3.14
Stream.....	1	--	---	7.1.24	In Stock
Kedges	1	---	---	3.2.12	
	1	---	---	1.3.14	

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

She has two life ~~Long~~ Boats and two others

The present state of the Windlass is good Capstan good and Rudder good Pumps 4 deck, main Engine &c.

Order for Special Survey No. 5-67 Date 20 March 1866

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
2nd. On the plating during the progress of rivetting
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
5th. After the ship was launched

Special Survey

State if she has a ~~Spar Deck~~ raised quarter ~~Poop~~ deck 63 feet ~~or~~ Forecastle 35 feet.

General Remarks,

This Vessel was Plated and part rivetted under Survey of the late Mr. Tiltman, she is similar in all respects to "Anglo Dane", report No 10047 and Classed ⊼ 1.

In what manner are the surfaces preserved from oxidation? Inside Cement and Paint

Ditto ditto Outside Paint

I am of opinion this Vessel should be Classed ⊼ 1

The amount of the Fee .....£ 5 : — : — is received by me, J. Harding

Special .....£ 32 : 12 : —

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

Committee's Minute 7th December 1866

Character assigned ⊼ 1 A + C P

This Screw Steamer Sheet of Iron appears eligible for Classification as recommended above

Dec 20 1866

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Thomas H. Leslie 26.3.1866, Herbert Patterson or Sons.