

IRON SHIPS.

Rec 29/5/65

No. 9643 Survey held at Newcastle Date 17th Nov 1864 to 18th May 1865
 on the "Miranda" Master W. Staniland
 Tonnage under tonnage deck 740.72 Built at Newcastle When built 1863 Launched 28th March 1865
 Ditto of poop 78.74 By whom built Palmer Bros & Co Owners London Steam Nav. Co Ltd
 Ditto of engine room 177.14
 Register tonnage 819.86 Port belonging to London Destined Voyage London & Mediterranean
 Surveyed while Building, Afloat, or in Dry Dock Special building

| Feet. | | Inches. | | Feet. | | Inches. | | Feet. | | Inches. | | Horse. | | No. of Decks | |
|---|--|---------|--|-----------------------|--|---------|--|---|--|---------|--|--|--|--------------|--|
| Length aloft | | 211 | | Extreme Breadth | | 28.15 | | Depth from top of Upper Deck Beam to top of Floor | | 17.4 | | Power of Engines | | 90 | |
| (Dimensions of Ship per Register, length 211 breadth 28.15 depth 17.4) | | | | | | | | | | | | | | | |
| Keel, if bar iron, depth and thickness | | | | Inches in Ship. | | | | Inches required per Rule. | | | | Plates in Garboard Strakes, breadth and thickness | | | |
| 7 x 2 3/4 | | | | 7 1/4 x 2 3/4 | | | | 38 | | | | 9 1/6 x 30 | | | |
| Stem, if bar iron, moulding and thickness | | | | 7 x 2 3/4 | | | | 7 1/4 x 2 3/4 | | | | Ditto from Garboard to upper part of Bilges.. | | | |
| 7 x 2 3/4 | | | | 7 1/4 x 2 3/4 | | | | 8 1/6 x 9 1/6 | | | | 9 1/6 x 9 1/6 | | | |
| Stern-post, if bar iron, moulding and thickness | | | | 8 x 5 | | | | 7 1/4 x 5 1/2 | | | | from upper part of Bilge to a perpendicular height from upper side of Keel of 3/4ths the entire depth of Hold | | | |
| 21 | | | | 21 | | | | 11 1/6 x 7 1/6 | | | | 8 1/6 x 7 1/6 | | | |
| Distance of Frames from moulding edge to moulding edge, all fore and aft | | | | Inches. In Ship. | | | | Inches. required per Rule. | | | | from 3/4ths depth of Hold to lower edge of Sheerstrake | | | |
| 4 | | | | 3 | | | | 7 1/6 x 4 1/4 | | | | 3 1/4 x 7 1/6 | | | |
| Frames, Size of Angle Iron, single or double | | | | Inches. In Ship. | | | | Inches. required per Rule. | | | | Sheerstrake, breadth and thickness | | | |
| 3 | | | | 3 | | | | 6 1/6 x 3 3/4 | | | | 3 1/4 x 7 1/6 | | | |
| Floors, depth and thickness of Floor Plate at mid line | | | | Inches. In Ship. | | | | Inches. required per Rule. | | | | Butt Straps to outside plating, breadth and thickness | | | |
| 18 | | | | 18 | | | | 7 1/6 x 1 1/2 | | | | 9 1/6 x 2 1/2 | | | |
| Ditto ditto at Bilge Keelson | | | | Inches. In Ship. | | | | Inches. required per Rule. | | | | Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness | | | |
| 7 | | | | 7 | | | | 7 1/6 x 4 1/4 | | | | 3 1/4 x 7 1/6 | | | |
| Size of Reversed Angle Iron, and No. at top of Floor Plate | | | | Inches. In Ship. | | | | Inches. required per Rule. | | | | Angle Iron on ditto | | | |
| 3 | | | | 3 | | | | 6 1/6 x 3 3/4 | | | | 4 x 4 x 3/4 | | | |
| Beams, Deck (No. 4) double Angle Iron, Plate, Tee, or Bulb Iron | | | | Inches. In Ship. | | | | Inches. required per Rule. | | | | Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways | | | |
| 7 | | | | 7 | | | | 7 1/6 x 7 | | | | 12 | | | |
| Ditto double or single Angle Iron, on upper edge | | | | Inches. In Ship. | | | | Inches. required per Rule. | | | | Diagonal Tie Plates on ditto | | | |
| 2 3/4 | | | | 2 1/2 | | | | 7 1/6 x 2 1/2 | | | | 12 | | | |
| average space between | | | | Inches. | | | | Inches. | | | | Planksheer, materials and scantlings | | | |
| 3 ft 6 ins | | | | 3 ft 6 ins | | | | 3 ft 6 ins | | | | Waterway ditto ditto | | | |
| Hold, or Lower Deck (No. 30) double Angle, Tee, Plate, or Bulb Iron | | | | Inches. In Ship. | | | | Inches. required per Rule. | | | | Flat of Upper Deck, thickness and material | | | |
| 7 | | | | 7 | | | | 7 1/6 x 7 | | | | 3 1/4 Pine 3 1/2 | | | |
| Ditto double or single Angle Iron, on upper edge | | | | Inches. In Ship. | | | | Inches. required per Rule. | | | | how fastened to Beams | | | |
| 2 3/4 | | | | 2 1/2 | | | | 7 1/6 x 2 1/2 | | | | Mlt x screw bolts | | | |
| average space between | | | | Inches. | | | | Inches. | | | | Ceiling between Decks and in Hold, thickness and material | | | |
| 2 ft 4 in | | | | 2 ft 4 in | | | | 2 ft 4 in | | | | 2 1/2 Red Pine | | | |
| Paddle, sided and moulded, thickness of Plate size of Angle Iron | | | | Inches. | | | | Inches. | | | | Clamps or Spirketting plates ditto | | | |
| 2 ft 4 in | | | | 2 ft 4 in | | | | 2 ft 4 in | | | | 18 | | | |
| Engine | | | | Inches. | | | | Inches. | | | | Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness | | | |
| 15 | | | | 15 | | | | 7 1/6 x 15 | | | | 30 | | | |
| Keelson, single or double plate, box, or intercostal | | | | Inches. In Ship. | | | | Inches. required per Rule. | | | | Stringer or Tie Plates fore and aft outside Hatchways, on Hold or Lower Deck Beams | | | |
| 23 | | | | 23 | | | | 7 1/6 x 23 | | | | 4 x 3 x 7 1/6 | | | |
| Size of Plates | | | | Inches. | | | | Inches. | | | | Stringers in Hold | | | |
| 3 x 3 x 7 1/6 | | | | 3 x 3 x 7 1/6 | | | | 3 x 3 x 7 1/6 | | | | 4 x 3 1/2 x 7 1/6 | | | |
| Size of Angle Irons | | | | Inches. | | | | Inches. | | | | Flat of Lower Deck, thickness and material | | | |
| 4 1/2 x 3 1/2 x 7 1/6 | | | | 4 1/2 x 3 1/2 x 7 1/6 | | | | 4 1/2 x 3 1/2 x 7 1/6 | | | | Main piece of Rudder, diameter at head | | | |
| Side, single or double, plate, box, or intercostal | | | | Inches. | | | | Inches. | | | | 5 | | | |
| Bilge (No. 2) at each Bilge, single, or double, plate, or box | | | | Inches. | | | | Inches. | | | | 3 | | | |
| 4 | | | | 4 | | | | 3 1/2 x 4 1/4 | | | | at heel | | | |
| Transoms, material Iron or, if none, in what manner compensated for. | | | | Inches. | | | | Inches. | | | | 3 | | | |
| Knight-heads, and Hawse Timbers | | | | Inches. | | | | Inches. | | | | Can the Rudder be unshipped afloat | | | |
| The Frames extend in one length from tank side to tank side & hence rivetted through plates with (3/4 in.) rivets, about (6) apart. | | | | Inches. | | | | Inches. | | | | Bulkheads, No. 4 Thickness of | | | |
| in other pieces to gunwale | | | | Inches. | | | | Inches. | | | | 3/8 | | | |
| The reverse angle irons on the floors extend in one length across the middle line from at double bottom to bilge and from thence to hold beam, stringer & alternate frames to deck. | | | | Inches. | | | | Inches. | | | | Height up upper deck | | | |
| from thence on the frames | | | | Inches. | | | | Inches. | | | | how secured to the sides of the ship | | | |
| Keelson, how are the various lengths of plates or angle irons connected? by Butt Straps, | | | | Inches. | | | | Inches. | | | | size of vertical angle irons 3 x 3 x 7 1/6 and their distance apart | | | |
| Plates, Garboard, double or rivetted to keel, double or rivetted at upper edge, with rivets (1 x 3/4 ins.) diameter, averaging (3 1/2 x 2 3/4) apart. | | | | Inches. | | | | Inches. | | | | 30 ft apart | | | |
| Edges from Garboards to upper part of bilge, worked clencher, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 3/4 ins.) apart. | | | | Inches. | | | | Inches. | | | | Do the butt straps lap over and rivet through the lands of the strake below? No | | | |
| Butts from Keel to turn of bilge, worked carvel with butt straps (9/16 to 1/6) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 3/4 ins.) apart. | | | | Inches. | | | | Inches. | | | | 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 (3/4 in.) diameter, averaging (2 3/4 in.) apart. | | | | Inches. | | | | Inches. | | | | Edges of Sheerstrake, double or single rivetted? At upper edge single At lower edge double rivetted | | | |
| Butts from bilge to planksheers, worked carvel with butt straps (9/16 to 1/6) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 3/4 ins.) apart. Breadth of laps in double rivetting (4 1/4) Breadth of laps in single rivetting (2 5/8) | | | | Inches. | | | | Inches. | | | | Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted? | | | |
| Planksheer, how secured to the plating of the sides | | | | Inches. | | | | Inches. | | | | Planksheer, how secured to the side? welded knees rivetted to frames | | | |
| Waterway | | | | Inches. | | | | Inches. | | | | old or Lower Deck ditto | | | |
| Deck Beams, how secured to the side? | | | | Inches. | | | | Inches. | | | | Paddle | | | |
| Hold or Lower Deck ditto | | | | Inches. | | | | Inches. | | | | No. of breasthooks 5 crutches 5 | | | |
| Paddle | | | | Inches. | | | | Inches. | | | | That description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.? | | | |
| Manufacturer's name or trade mark L.W. & B. Walker & Palmer West Jarrow | | | | Inches. | | | | Inches. | | | | We certify that the above is a correct description of the several particulars therein given. | | | |
| Builder's Signature | | | | Inches. | | | | Inches. | | | | Surveyor's Signature | | | |
| H. C. Liltman | | | | Inches. | | | | Inches. | | | | H. C. Liltman | | | |
| M. H. C. Liltman | | | | Inches. | | | | Inches. | | | | M. H. C. Liltman | | | |

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 lay close together throughout their length without requiring any making good of deficiencies? flaps shown
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? generally so 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. | | | CABLES, &c. | | | ANCHORS, and their weights. | | |
|--------------------------------------|--------------------------|--|-----------------------------|----------|---------|-----------------------------|------------------|------------|
| N ^o . | | | marked Lloyd's type | Fathoms. | Inches. | marked Lloyd's type | N ^o . | Weight. |
| one | Fore Sails, | | Chain | 270 | 1 7/16 | Bowers, | 3 | 21.0.3 |
| | Fore Top Sails, | | Stream Cable | 90 | 7/8 | 12 R. 1.3.65 | | 21.12.1.21 |
| half | Fore Topmast Stay Sails, | | Hawser | 90 | 8 | 12 R. 25.2.65 | | 19.0.13 |
| ✓ | Main Sails, | | Towlines | - | 6 | 12 C 25.2.65 | | 17.3.4 |
| | Main Top Sails, | | Warp | - | 5 | | | 18.17.0.21 |
| and | | | All of <u>good</u> quality. | - | 4 | Stream, | 1 | 0.2.14 |
| | | | | | | Kedges, | 2 | 4.0.12 |
| | | | | | | | | 2.2.21 |
| Her Standing and Running Rigging | | | is | | | sufficient in size and | | |
| She has | | | one | | | Long Boat and | | |
| The present state of the Windlass is | | | good | | | Capstan | | |
| | | | good | | | and Rudder | | |
| | | | good | | | Pumps | | |
| | | | | | | 4 deck Pumps | | |
| | | | | | | and engine pump | | |

| | | | | |
|---------------------------|----------------|------|--|------------------|
| Order for Special Survey | DATES of | 1st. | On the several parts of the frame, when in place, and before the plating was wrought | } Special Survey |
| No. 400 | Surveys held | 2nd. | On the plating during the progress of rivetting | |
| Date 14 Nov 1864 | while building | 3rd. | When the beams were in and fastened, and before the decks were laid | |
| Order for Ordinary Survey | as per | 4th. | When the ship was complete, and before the plating was finally coated | |
| No. - | Section 18. | 5th. | After the ship was launched | |
| Date - | | | | |

State if she has a Spar Deck Raised Quarter Deck 75 ft Forecastle 36 feet

General Remarks,

This vessel has been built in accordance with the section submitted, and under special survey to class A, the scantlings &c are similar to the "Medora", 769 tons, Report-No 9404, but when measured, she proves to be about 40 tons more under the tonnage deck, & 50 tons more gross tonnage than the "Medora", to which Report I beg to refer, also to the Secretary of the 2nd December last, and respectfully submit the class for the Committee's consideration.

In what manner are the surfaces preserved from oxidation?

Ditto

ditto

Inside

Outside

Red lead & asphalt in bottom
Paint

I am of opinion this Vessel should be Classed

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

Special £ 41 : : :

Certificate (if required) £ : : :

Committee's Minute 30th May 18 65

Character assigned

A

A.T.C.P.

J. H. Siltman
This vessel does not
appear eligible for
higher class than
Lloyd's Register
Foundation