

IRON SHIPS.

Rec 6/9/64

No. 8220 Survey held at Sunderland Date 24th Aug 63 to 1st June 1864
 on the Ship "ANTIM" Master J. Webster
 Under Deck 897.82. Paid 10/-
 Tonnage Gross 74 Engine Room P. 92.86 Register
 Close Board 2.36. Paid 10/-
 When Built 1863.4 By whom built Duxford
 Launched 1st March 1864 Owners A. Moore & Co
 Port belonging to Liverpool Destined Voyage 19th Singapore
 Surveyed Afloat or in Dry Dock At Duxford Building and in dry dock

Feet.	Inches.	Feet.	Inches.	Depth from top of Upper Deck	Feet.	Inches.	Horse No.
Length aloft		Extreme Breadth		Beam to top of Floor	Power of Engines		
100	-	33.3	-	21.45			
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft		21		Stem, if bar iron, moulding and thickness	8	2 $\frac{3}{4}$ 7 $\frac{1}{2}$	3
Floors, Size of Angle Iron, and No. at bottom of Floor Plate		4 $\frac{1}{2}$ 3	8	if plate iron, breadth and thickness			
,, depth and thickness of Floor Plate at mid line		2 $\frac{3}{4}$	9	Stern-post, if bar iron, moulding and thickness	8	2 $\frac{3}{4}$ 7 $\frac{1}{2}$	3
,, depth and thickness of Floor Plate at Bilge Keelson		9 $\frac{3}{4}$	9	if plate iron, breadth and thickness			
,, Size of Reversed Angle Iron, and No. at top of Floor Plate		3 $\frac{1}{2}$ 2 $\frac{3}{4}$	7	Keel, if bar iron, depth and thickness	33. plate 10	7 $\frac{1}{2}$	3
Frames, Size of Angle Iron, single or double		4 $\frac{1}{2}$ 3	8	if plate iron, breadth and thickness each	8	16	
,, Reversed Iron, X to every frame and every alt ^{er} frame		6 $\frac{1}{2}$ 3	8	Garboard Plates, thickness	Wetham, Leeds	13	30 12
Beams, Deck (N ^o . 51) double Angle Iron		2 $\frac{3}{4}$ 2 $\frac{3}{4}$	6	From Garboard to upper part of Bilge		10	11
,, Bulb Iron with double Angle Iron on top		2 $\frac{3}{4}$ 2 $\frac{3}{4}$	6	From upper part of Bilge to Sheerstrakes	to 3 $\frac{1}{2}$ depth hold	10	10
,, depth & thickness of plate amidships		8 $\frac{1}{2}$	9	Sheerstrakes		9	9
,, double or single Angle Iron on lower edge		8 $\frac{1}{2}$	9	Breadth & thickness of Butt Straps to outside plating		32 $\frac{1}{2}$ 11 30	11
,, average space between		16	3/6	Plankshears	Iron Waterway	33 9 27 $\frac{1}{2}$ 9	
,, if wood (N ^o .) sided & moulded		16	3/6	Gunwale Plate or Stringer on ends of Up. Dk Beams		5x4x8 5x4x8	
,, Held, or Lower Deck (N ^o . 50) double Angle Iron or Bulb Iron with double Angle Iron on top		3 $\frac{1}{2}$ 2 $\frac{3}{4}$	6	Angle Iron on ditto		3 $\frac{1}{2}$ x3 $\frac{1}{2}$ x1	
,, depth & thickness of plate amidships		8 $\frac{1}{2}$	10 $\frac{1}{2}$	Waterway	Iron Gutter	4	3 $\frac{1}{2}$
,, double or single Angle Iron on lower edge		8 $\frac{1}{2}$	10 $\frac{1}{2}$	Deck	4. Price		
,, average space between		16	3/6	Ceiling in Hold	Damper fair	2 $\frac{1}{2}$	
,, if wood (N ^o .) sided & moulded		16	3/6	Ceiling betwixt Decks	Battens		
Paddle, wood, sided and moulded or if Iron, size of Plate		16	3/6	Beam Clamps			
Keelson, wood, sided & moulded, iron, size of plate, if Angle iron sketch & dimensions		9 $\frac{1}{2}$	10-35	Shelf			
,, Side or Bilge plate between		5	10-22	Stringer Plates on ends of Held or Lower Dk Beams			
,, Intercoastal Double angle		3	5-4	Ceiling between Decks			
Transoms, material		12m	4-8	Stringer or Tie Plates outside Hatchways			
Knight-heads		Iron		Deck Beam Clamps			
Hawse Timbers		Iron		Do Do lower Deck	Double Angle iron	6x3x8	
				Shelf			
				Stringers in Hold	Double 200n	6x3x8	
				Deck, Lower	222. Bedding	8 $\frac{1}{2}$ 8	
				Deck, Upper, how fastened to Beams	Battac Battens	3	

Transoms, material Iron if none, in what manner compensated for.

Knight-heads Iron Thickness of 6 $\frac{1}{2}$ are they free from defects?

Hawse Timbers Iron how secured to the sides of the ship Single framed brackets

size of vertical angle iron and their distance apart 3 $\frac{1}{2}$ x3 and 4x3 crossed

The Frames or Ribs extend in one length from Keel to Gunwale riveted through plates with (7/8in.) rivets, about (6 $\frac{1}{2}$) apart.

The reverse angle irons on the floors extend in one length across the middle line from Flat to Deck beams braced

on the frames from Flat to Deck beams braced

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

Plates, Garboard, double or single riveted to keel & at upper edge, with rivets (15.5 ins.) diameter averaging (5.14 in.) from centre to centre of rivet.

Edges from Garboards to upper part of bilge, worked carvel with a lining piece () in. thick, or clench, double or single riveted; rivets () in. diameter, averaging (3 $\frac{1}{2}$ ins.) from centre to centre of rivets.

Butts from Keel to turn of bilge, worked carvel with a lining piece (3 $\frac{1}{2}$) thick, double or single riveted; rivets () in. diameter, averaging (3 $\frac{1}{2}$ ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the stake below? Yes by adding pins

Edges from bilge to planksheer, worked carvel with a lining piece () thick, double or single riveted; rivets () in. diameter, averaging (3 $\frac{1}{2}$ in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the stake below? Yes by adding pins

Butts from bilge to planksheer, worked carvel with a lining piece () thick, on clench, double or single riveted; rivets () in. diameter, averaging (3 $\frac{1}{2}$ ins.) from centre to centre of rivets. Breadth of laps in double rivetting () Breadth of laps in single rivetting ()

Planksheer how secured to the plating of the sides Explain by sketch, How gutter draining

Waterway planksheer and to the Beams if necessary

Side trussing breadth and thickness of plates how secured?

Deck trussing Diagonals ties in case of each mast? at each deck 12 feet 9 $\frac{1}{2}$ inches

Deck Beams, how secured to the side? Girder brackets

Hold or Lower Deck X

Paddle, how secured to the plating of the sides Explain by sketch, How gutter draining

To, of crutches how are pointers compensated? Girder brackets

What description of iron is used for the angle iron and plate iron in the vessel? Iron Hopkins made up Builder's Signature

Plates Wetham, Leeds. Bar 8 cwt

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IRON437A-0161

3730 *Shom*

workmanship. Are the lands or laps of the clenchwork in all cases in breadth at least five times the diameter of the rivets in double riveted edges and butts, and at least three 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? *General*

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 riveting plate to frames, lining pieces, 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 in or have been put through the seams or butts of the plating? *A few occur in the butts*

Her Masts, Yards, &c., are in *Good* condition, and sufficient in size and length.

She has SAILS.

a Double sail
Fore Sails,
Fore Top Sails,
Fore Topmast Stay Sails,
Main Sails,
Main Top Sails,
and

CABLES, &c.

*Certificated produced of best
Admiralty wire 51 lbs.
Chain 300 1 1/2
Hempen Stream Cable 70 7/8
Hawser 90 5 1/2
Towlines 90 9 1/2
Warp 90 5 1/2
All of good quality.*

Lower Masts Lowered Iron
Yards &c. Anchors Steel

*Certificated produced of best
Admiralty wire 29 lbs.
Bower, 3 31.0
Stream, 1 30.2
Kedge, 2 30.2
Weight. 1 12.0
2 5.1.11
2.2.1*

Her Standing and Running Rigging *Windjumps* sufficient in size and *Good* in quality.

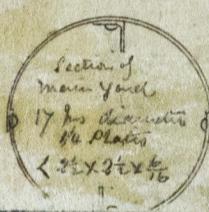
She has *one* Long Boat and *3 others*.

The present state of the Windlass is *Good* Capstan *Good* and Rudder *Good* Pumps *Good*

General Remarks, Statement and Date of Repairs, extent of corrosion (if any) both internally and externally, and condition of rivets.

- DATES of Surveys held while building, as per Section 17. { 1st. On the several parts of the frame, when in place, and before the plating was wrought *Battened*
 2nd. On the plating during the progress of rivetting *Special Anchors*
 3rd. When the beams were in and fastened, and before the decks were laid *Between 11. 12th Aug 63*
 4th. When the ship was complete, and before the plating was finally coated *April 1864*
 5th. After the ship was launched *1st June 1864*

It more care was repeatedly requested in fitting the butts some of which were found to be flattened, as the work proceeded this was improved —



The area of the section of the keel being less than the rule requirement the Garboard strakes are worked to extra in thickness. The midship portion of the plating from the light deck upwards was finished in butts and edges for 100 rivets, within four diameters apart (edge to edge). This spacing being in a few cases exceeded intermediate rivets were inserted at such points. The whole of this spacing was objected to by Mr Jordan and an intermediate rivet was then added throughout. He also insisted upon the division of the angle of the keel on hold beam stringer and intercostal keelson being double riveted. He required a row on the frames. This arrangement had been previously objected to by the London Surveyors and again by me, the double reversed iron is omitted in the range of the intercostal keelson (midway between drain and large keelson) which is connected to the floors vertically and to the outside bracing by angle irons. The double iron on top is extended aft to compensate for the floor plates not being turned up at their ends sufficiently forward and aft. The first offsets and plates required to be day letter 20th Jan '64 have been compensated as recommended.

In what manner are the surfaces preserved from oxidation?

*Cement inside & turn of hawsers
Paints and timber's composition outside*

I am of opinion this Vessel should be classed *As*

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

Order No 1428 Special £ 49: 12: " J. H.

W. W. M. F.

Blackett & Son & Co. of Cork Street Liverpool

Committee's Minute 6th September 1864

Character assigned *A 1*

** In launching, the rudder was sliced and all the pintles broken off. New pintles were forged and riveted on in a satisfactory manner. The rudder having been placed in dry dock, some of the heel rivets proving leaky were removed, the bottom re-sanded and re-coated with Mr. Jones' composition.*

*The Sailing Ship *Shom* is
eligible for Classification
as recommended above.*

Sept 6/64 J. H. 2019



*H. Lloyd's Register
Foundation*