

IRON SHIPS.

16236 Iron

Rec 22/5/16
1864

No. 2386 Survey held at Middlebro Date 26 July
on the Iron Steamer Damietta Master Smith
Tonnage Gross 565 ⁴⁸/₁₀₀ Engine Room 133 ³⁴/₁₀₀ Register 432 ¹⁴/₁₀₀ Built at Middlebro
When Built 1864 Launched 21 June 1864 By whom built Backhouse & Dixon
Owners Shapelle & Co Port belonging to London Destined Voyage
If Surveyed Afloat or in Dry Dock while building

Length aloft	Feet.	Inches.	Extreme Breadth	Feet.	Inches.	Depth from top of Upper Deck	Feet.	Inches.	Beam to top of Floor	Feet.	Inches.	Power of Engines	Horse.
179	⁴ / ₁₀		27	⁴ / ₁₀		16	³ / ₁₀					80	
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft	21		21										
Floors, Size of Angle Iron, and No. at bottom of Floor Plate	3 1/2		3		16ths. required per Rule.		3 3/4		2 3/4		7/16		
depth and thickness of Floor Plate at mid line	17		x		7/16		18		x		5/16		
depth and thickness of Floor Plate at Bilge Keelson	8		x		7/16		8		x		7/16		
Size of Reversed Angle Iron, and No. at top of Floor Plate	3		2 1/2		7/16		3		2 1/2		7/16		
Frames, Size of Angle Iron, single or double	3 1/2		3		7/16		3 3/4		2 3/4		7/16		
Reversed Iron, if to every frame or every other frame	3		2 1/2		7/16		3		2 1/2		7/16		
Beams, Deck (No. 57) double Angle Iron, Plate, or Bulb Iron	7		x		7/16		6 3/4		x		7/16		
double or single Angle Iron, on top edge	2 1/2		2 1/2		7/16		2 1/2		2 1/2		7/16		
average space between	42		inches		42		inches						
if wood (No. 29) sided & moulded	7		x		7/16		6 3/4		x		7/16		
Hold, or Lower Deck (No. 29) double Angle Iron, Plate, or Bulb Iron	3		2 1/2		7/16		3		2 1/2		7/16		
double or single Angle Iron, on top edge	3		2 1/2		7/16		3		2 1/2		7/16		
average space between	Second		fourth frames		Second		fourth frames						
if wood (No. 29) sided & moulded													
Paddle, wood, sided and moulded, or if Iron, size of Plate													
Engine													
Keelson, single plate, box, or intercostal	12		x		10/16		12		x		10/16		
Size of Plates	4		3		7/16		4 1/4		3 1/4		7/16		
Size of Angle Irons	4		3		7/16		4		3		7/16		
Ditto Bilge (No. 29) double Angle Irons	4		3		7/16		4		3		7/16		
Transoms, material	Plate, or, if none, in what manner compensated for.												
Knight heads, and Hawse Timbers	Blocks German Oak												
The Frames or Ribs extend in one length from	Keel to Gunwale												
The reverse angle irons on the floors extend in one length across the middle line from	Top of bilge to top of bilge												
on the frames	from bilge to gunwale on alternate frames												
Keelson, how are the various lengths of plates or angle irons connected?	Butts of plates & angle irons shifted & strapped & rivetted												
Plates, Garboard, double or single rivetted to keel & at upper edge, with rivets	(1/2 in.) diameter averaging (1/2 in.) from centre to centre of rivet.												
Edges from Garboards to upper part of bilge, worked carvel with a lining piece	(1/2 in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 in.) from centre to centre of rivets.												
Butts from Keel to turn of bilge, worked carvel with a lining piece	9 x 7/16 thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 1/2 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? No												
Edges from bilge to sheerstrake, worked carvel with a lining piece	(1/2 in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 1/2 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? No												
Edge of Sheerstrake, double or single rivetted?	double												
Butts from bilge to planksheers, worked carvel with a lining piece	9 x 7/16 thick, double or single rivetted; rivets (3/4 in.) diameter averaging (3 1/2 in.) from centre to centre of rivets. Breadth of laps in double rivetting (4 1/2) Breadth of laps in single rivetting (2 3/4)												
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												
Waterway	if necessary..												
Deck Beams, how secured to the side?	Beams ends turned & knees welded												
Hold or Lower Deck	Same as deck												
Paddle	None												
No. of breasthooks	crutches how are pointers compensated?												
What description of iron is used for the angle iron and plate iron in the vessel?	R. Hopkins & Co. Builder's Signature												
	Backhouse & Dixon												

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 rivetted edges and butts, and at least three 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? *They do*

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

Do the holes for rivetting plate to frames, lining pieces, or plate to plate, &c., conform well to each other? *Yes* and are the rivet holes well and sufficiently countersunk in the outer plate? *all through*

Are there any rivets which either break into or have been put through the seams or butts of the plating? *a few in butts*

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

She has SAILS.

CABLES, &c.

ANCHORS, and their weights.

N ^o .			Fathoms.	Inches.		N ^o .	Weight.
<i>one but of Good sails and</i>	Fore Sails,	Chain	240	1 1/4	Bower, <i>By Rodgers</i>	3	19.214
	Fore Top Sails,	Heavy Stream Cable	90	3/4			19.122
	Fore Topmast Stay Sails,	Hawser	90	5 1/2	Stream,	1	19.311
	Main Sails,	Towlines	90	7 1/2			18.211
	Main Top Sails,	Warp	75	3 1/4	Kedge,	2	2.324
		All of <i>good</i> quality.					1.114

Her Standing and Running Rigging *Wire Haup Manila* sufficient in size and *good* in quality.

She has *Two Life* Long Boats *Big & Solly* *so*

The present state of the Windlass is *Patent* Capstan *2 Wheels* and Rudder *good* Pumps *good of Metal*

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

- 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 *Special Survey No of order 188*
- 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 *First Survey 14 Decr 1863*
- 5th. After the ship was launched *Last Survey 26 July 1864*

The length being over eleven times the depth, the Sheerstrakes are fitted 1/6 thicker for 3/4 the vessel's length, likewise a doubling strake 9 x 1/6 for the same length.

An intercostal keelson fitted on each side of Middleline with plates 17 x 7/6 double Angle iron 4 x 3 x 7/6

Has a raised deck aft frames all to the top height plating 1/6 Beams the same as deck. Stringer plates on ends of 23 x 1/6 Angle iron 4 1/2 x 3 x 7/6 Waterways 11 x 5 in K Pine & G. Oak. Flat of deck 3 in 1/4 pine

(Signed) Buckhouse & Dixon

At J. Martins recommendations of 26 May have been carried out

In what manner are the surfaces preserved from oxidation? *Flat of hold cemented with Portland Cement all other parts coated with two coats of paint*

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

The amount of the Fee £ 5 : 0 : 0 is received by me, *(Signed) J. Gladstone*

Special £ 28 : 5 : 0

Certificate (if required) £ : :

Committee's Minute 18

Character assigned