

IRON SHIPS.

Survey held at Stockton Date from the October 1869 to 30th May 1890
 LLO C. & S. Steamer "Menyach" Master Stayes
 Tonnage deck 894.80
 deck 422.80
 forecastle or one on upper deck 422.60
 room less 273.90
 tonnage 853.10
 ENGI. per Space. 46.85

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

	Feet. Inches.	Feet. Inches.	Depth from top of Upper Deck Beam to top of Floor Deck to Main Deck	Feet. Inches.	Power of Engines	Horse.	No. of Decks
Length afloat	232	Extreme Breadth	23	21	130	two	
Dimensions of Ship per Register, length	232	Breadth	23.5	depth	24.5		
if bar iron, depth and thickness		Inches in Ship.		Plates on Garboard Strakes, breadth and thickness	30		
if plate iron, breadth and thickness	9 x 3	for 600 & 1200 tons scale		Ditto from Garboard to upper part of Bilges,	16	30	11/16
if bar iron, moulding and thickness	9 x 3			from upper part of Bilge to a perpendicular height from upper side of Keel of 3ths the entire depth of Hold	16	10/16	9/16
if plate iron, breadth and thickness	9 x 3			from 3ths depth of Hold to lower edge of Sheerstrake	9/16	8/16	8/16
a-post, if bar iron, moulding and thickness	10 1/2 x 5 1/2			Sheerstrake, breadth and thickness	36	12/16	10/16
if plate iron, breadth and thickness	9 x 6			Butt Straps to outside plating, breadth and thickness	12/16	8/16	8/16
size of Frames from moulding edge to building edge, all fore and aft	21			Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness	34	13/16	11/16
Size of Angle Iron, single or double	4 1/2 x 3	inches in ship.	21	Angle Iron on ditto	two	5 x 14 x 8/16	5 x 14 x 8/16
Reversed Iron, if to every frame	3 x 3	inches in ship.	8/16	Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways	12/16	9/16	9/16
floor thickness and thickness of Floor Plate at mid line	24	16ths. in ship.	8/16	Diagonal Tie Plates on X sets ditto	12/16	9/16	9/16
" Ditto ditto at Bilge Keelson	11	inches in ship.	9/16	Planksheer, materials and scantlings	lutter		
Size of Reversed Angle Iron, and No. one at top of Floor Plate	3 x 3	16ths. in ship.	3	Waterway ditto ditto	3		
Beams, Deck (No. 10) double Angle Iron, Plate, Tee, or Bulb Iron	8 1/2	inches in ship.	8/16	Flat of Upper Deck, thickness and material	3 1/2	3 1/2	3 1/2
," double or single Angle Iron, on upper edge	3 x 3	16ths. in ship.	8/16	," how fastened to Beams	8/16	8/16	8/16
," average space between	4 1/2	inches in ship.	4 1/2	Ceiling betwixt Decks and in Hold, thickness and material	2 1/2, 3 1/2, 4 1/2	2 1/2, 3 1/2, 4 1/2	2 1/2, 3 1/2, 4 1/2
Hold, or Lower Deck (No. 9)	8 1/2	inches in ship.	8/16	Clamps or Spirketting ditto	—	—	—
double Angle, Tee, Plate, or Bulb Iron	8 1/2	inches in ship.	8/16	Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness	2 1/2 x 16	2 1/2	2 1/2
," double or single Angle Iron on upper edge	3 x 3	inches in ship.	9/16	Stringer or Tie Plates fore and aft outside Hatchways, on Hold or Lower Deck Beams	5 x 14 x 8/16	5 x 14 x 8/16	5 x 14 x 8/16
average space between	See Plan	inches in ship.	3	Stringers in Hold	5 1/2 x 14 x 9/16	5 1/2 x 14 x 9/16	5 1/2 x 14 x 9/16
Side, single or double, plate, box, or intercostal	3 1/2	inches in ship.	8/16	Flat of Lower Deck, thickness and material	—	—	—
Bilge (No. one) at each Bilge, single, or double, plate, or box	5 1/2	inches in ship.	9/16	Main piece of Rudder, diameter at head	6	6	6
Ransoms, material of Platting, or, if none, in what manner compensated for.				," at heel	3	3	3
Night-heads, and Hawse Timbers				(Can the Rudder be unshipped afloat)	Yes	Yes	Yes
Frames extend in one length from Keel to Gunwale				Bulkheads, N. Thickness of	6/16	6/16	6/16
Transverse angle irons on the floors extend in one length across the middle line from turn of bilge to turn of bilge				Height up Main Deck	—	—	—
," on the frames				," how secured to the sides of the ship	By double frames a bracket		
now are the various lengths of plates or angle irons connected?				," size of vertical angle irons	x 3 1/2	x 3 1/2	x 3 1/2
Garboard, double				and their distance apart	2 feet 6 ins.	2 feet 6 ins.	2 feet 6 ins.
riveted to keel, double				riveted through plates with	(1/8 in.) rivets, about (6/16 in.) apart.	(6/16 in.) rivets, about (6/16 in.) apart.	(6/16 in.) rivets, about (6/16 in.) apart.
Edges from Garboards to upper part of bilge, worked clench, double or single							
Butts from Keel to turn of bilge, worked carvel with butt straps (1/16 : 8/16) thick, double							
averaging (2 1/2 ins.) apart.							

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

Edges from bilge to sheerstrake, worked carvel with a lining piece () thick, or clench, double or single riveted; with rivets (3/4 in.) diameter.

averaging (2 1/2 in.) apart.

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

Edges of Sheerstrake, double or single riveted? At upper edge make at bulwarks At lower edge double

laps from bilge to planksheers, worked carvel with butt straps (9/16 : 8/16) thick, double or single riveted; with rivets (3/4 in.) diameter, averaging (2 1/2 ins.) apart. Breadth of laps in double riveting (X 1/2) Breadth of laps in single riveting (2 1/2)

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

Bulwarks riveted

sheer, how secured to the plating of the sides

Explain by sketch if necessary.

Worway " " planksheer and to the Beams

bulwarks

how secured to the side?

By Beam ends turned and welded

Upper Deck ditto

ditto

No. of breasthooks 8 crutches 8 good

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

good

Manufacturer's name or trade mark Stockton Malleable Iron Works

good

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

good

Signature

Surveyor's Signature

Lloyd's Register

Foundation

7991. Iron

ship. Are the lands or laps of the clenchwork in all cases in breadth at least five and a half times the diameter of the edges and butts, and at least three and a quarter times the diameter of the rivets where single rivetting is admitted? Do the edges of the carvel work and of the butts fay close together throughout their length without requiring any making good of deficiencies between the ribs and plates fill in solid with single pieces? or are they in short lengths of various thicknesses? Do the plates rivetted plate to frames, butt straps, or plate to plate, &c., conform well to each other? Was the riveting 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? Some in Britt.

Her Masts, Bowsprit, Yards, &c., are in good condition, and sufficient in size and length. (If they are of Iron or Steel see the Sketches of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, giving number of Plates and Angle Irons, mode of rivetting, quality of Materials, and if stamped with Maker's name.)

The two Main Masts are of Iron plates $\frac{5}{16}$ thick, two at head $\frac{5}{16}$. Three more running the full lengths $3 \times \frac{5}{8} \times \frac{5}{16}$, doubling plates $\frac{1}{4}$ each $\times \frac{5}{16}$, edges single and double riveted.

She has SAILS.	CABLES, &c.	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	N.	Weight. Ex. Stock.	Test as per Certificate.	Weight req'd per Rule.
Fore Sails,	Chain	300	$1\frac{9}{16}$	$44\frac{1}{2}$	$1\frac{5}{8}$	$14\frac{1}{2}$	Bowers	3	{ 26-2-0 26-0-0	25%	
Fore Top Sails,									{ 26-3-0 25-6-1	25%	
Fore Topmast Stay Sails	Hawser Stream Cable	90	1						{ 22-1-0 22-1-1	21-2-2	
Main Sails,	Hawser	90	6				Stream	1	10-2-11	10%	
Main Top Sails,	Towlines	90	$9\frac{1}{2}$				Kedges	2	{ 5-1-8	5%	
and	Warp	90	9						{ 2-3-9	2	
	All of <u>good</u> quality.	180	4								

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

She has two Life Long Boats and three others

The present state of the Windlass is good Capstan good and Rudder good Pumps (5 of Metal) good

Order for Special Survey No.	DATES of Surveys held while building	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
No. 321	Date Nov. 8 th 1870					
Order for Ordinary Survey No.	Date	as per Section 18.				

State if she has a Spar Deck Peop. or Forecastle

General Remarks,

Has a Spar Deck frames to Main and Spar Deck, alternately. Beams bulb plates $\frac{5}{16} \times \frac{5}{16}$, double angles on upper edge $2\frac{1}{2} \times 2\frac{1}{4} \times \frac{1}{2}$, space $1\frac{1}{2}$, strengthen beams $3\frac{1}{2} \times \frac{5}{16}$, angles iron on ditto $1\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{2}$ a $3\frac{1}{2} \times 3 \times \frac{5}{16}$. Tie plates $1\frac{1}{2} \times \frac{3}{4}$, diagonal tie plates (4 sets), $1\frac{1}{2} \times \frac{3}{4}$. Plating $\frac{5}{16} \times \frac{5}{16}$, Rivets $\frac{5}{8}$, Space $2\frac{1}{2}$. Deck $3\frac{1}{2} \times \frac{5}{16}$ pins a fastened with $\frac{5}{16}$ h.s.n. 33.

Fitted with Water Ballast Tanks in fore & after holds, side flange p. t. $\frac{1}{2}$ angle at bottom $3\frac{1}{2} \times 3\frac{1}{2} \times \frac{5}{16}$, base plates $\frac{5}{16}$, girder plates $\frac{5}{16}$, angles top and bottom $2\frac{1}{2} \times \frac{1}{2}$ top of tanks $\frac{5}{16}$, ceiling $2\frac{1}{2}$ Am. Elm.

Bilge Keels $1\frac{1}{2} \times \frac{5}{16}$ bulb & double angles $5 \times 1\frac{1}{2} \times \frac{1}{2}$.

Anchors & chain cables tested, at the Sunderland Public Chain & Anchor Test Feb. 8th 1870. John Hartness, Superintendent.

A portion of the chain cable has been proved at the above works to breaking strain and that it showed a margin of Thirty per cent beyond Admiralty test for $1\frac{5}{8}$ inch chain.

At Pease's Co.

In what manner are the surfaces preserved from oxidation? Inside With Cement & Paint
Ditto ditto Outside With Paint

I am of opinion this Vessel should be Classed A-1

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

John H. MC Special £ 63 : 13 : :

Certificate (if required) £ - : - : -

Committee's Minute 3 June 1870

Character assigned A-1

Spar decked over



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