

IRON SHIP.

Rec 28/5/75

No. 14123 Survey held at Sunderland Date, First Survey January 25th Last Survey May 24th 1875.

On the Steam S. "Plover" Yard Number 73 Master Wm Taylor

TONNAGE under Tonnage Deck) <u>829.45</u>	ONE, OR TWO DECKED, THREE DECKED VESSEL.	Built at <u>Sunderland</u>
Ditto of Third, Spar, or Awaiting Deck.) <u>24.61</u>	SPAR, OR AWNING DECKED VESSEL.	When built <u>1875</u> Launched <u>21st April</u>
Ditto of Poop, or Raised Qr. Dk.) <u>37.20</u>	HALF BREADTH (moulded) <u>14.5</u>	By whom built <u>Mowney and Foster</u>
Ditto of Houses on Deck <u>34.01</u>	DEPTH from upper part of Keel to top of Upper Deck Beams <u>19.0</u>	Owners <u>Gen. Stm & Varg^{re} Co. of London</u>
Gross Tonnage <u>948.27</u>	GIRTH of Half Midship Frame (as per Rule) <u>30.0</u>	Port belonging to <u>London</u>
Less Crew Space <u>43.73</u>	1st NUMBER <u>63.5</u>	Destined Voyage <u>London and</u>
Less Engine Room <u>303.64</u>	1st NUMBER, if a THREE-DECKED VESSEL deduct 7 feet <u>230.0</u>	Surveyed while Building, Afloat, & in Dry Dock.
Register Tonnage as cut on Beam) <u>601.50</u>	LENGTH <u>230.0</u>	
	2nd NUMBER <u>14.605</u>	
	PROPORTIONS—Breadths to Length <u>under 8.52</u>	
	Depths to Length—Upper Deck to Keel <u>13-4</u>	
	Main Deck ditto <u>13-4</u>	

LENGTH on deck as per Rule 230 Feet. Inches. 0 BREADTH—Moulded... 29 Feet. Inches. 0 DEPTH top of Floors to Upper Deck Beams 17 Feet. Inches. 5 Power of Engines 110 Horse. N^o. of Decks with flat laid 3 N^o. of Tiers of Beams 3

Dimensions of Ship per Register, length, 231.8 breadth, 29.3 depth, 17.3

	Inches in Ship.	Inches per Rule.		Inches in Ship.	Inches per Rule.
KEEL, depth and thickness	8 x 2 3/8	8 x 2 3/8	FLAT KEEL PLATES, breadth and thickness	34	11
STEM, moulding and thickness	7 1/2 x 2 3/8	7 1/2 x 2 3/8	PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges	9 1/2	10
STERN-POST for Rudder do. do.	9 x 4	7 1/2 x 3/4	of doubling at Bilge, or increased thickness, and length applied 1/2 length	28	1
for Propeller	10 x 4 1/2	7 1/2 x 3/4	fm up. part of Bilge to lr. edge of Sh'rstrake	9 1/2	10
Distance of Frames from moulding edge to moulding edge, all fore and aft	23	(Class 100A)	Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied from Mn. to Up. or Spar Dk. Sh'rstrake.		
FRAMES, Angle Iron, for 1/2 length amidships	4 x 3 1/2	4 x 3 1/2	Up. or Spar Dk Sh'rstrake, brdth & thickness	36	13
Do. for 1/2 at each end	4 x 3 1/2	4 x 3 1/2	Butt Straps to outside plating, breadth & thickness	10 1/2	8 1/2
REVERSED FRAMES, Angle Iron	3 x 3	3 x 3	Lengths of Plating	fine spaces of frames	
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships	18 1/2	8	Shifts of Plating, and Stringers	three and three spaces of frame	
thickness at the ends of vessel	7	7	Gunwale Plate on ends of Awaiting, Spar, or Upper Deck Beams, breadth and thickness	48	10
depth at 3/4 the half-bdth. as per Rule	9 1/2	9 1/2	Angle Iron on ditto	5 x 3 1/2 x 8	5. 3 1/2 x 8
height extended at the Bilges	higher Section See Note Bk		Tie Plates fore and aft, outside Hatchways	11	9
BEAMS, Upper, Spar, or Awaiting Deck Single or double Ang. Iron, Plate or Tee Bulb Iron	6 1/2	6	Diagonal Tie Plates on Beams No. of Pairs,		
Single or double Angle Iron on Upper edge	2 1/2	2 1/2	Planksheer material and scantling		
Average space	alternate frames		Waterways do. do.		
BEAMS, Main or Middle Deck Single or d'ble Ang. Iron, Plate or Tee Bulb Iron			Flat of Upper Deck do. do.	3 1/2	7 P. 3 1/2
Single, or double Angle Iron, on Upper Edge			How fastened to Beams	iron nut and screw bolts	
Average space			Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness		
BEAMS, Lower Deck, Hold or Orlop Single or double Ang. Iron, Plate or Tee Bulb Iron	7	7	Is the Stringer Plate attached to the outside plating?		
Single or double Angle Iron on Upper Edge	3	3	Angle Irons on ditto, No.		
Average space	standing in floors		Tie Plates, outside Hatchways		
KEELSONS Centre line, single or double plate, beam, or intercostal, Plates	18	9	Diagonal Tie Plates on Beams, No. of pairs		
Rider Plate	10 1/2	11	Waterways materials and scantlings		
Bulb Plate to Intercostal Keelson	5	3 1/2	Flat of Middle Deck do. do.		
Angle Irons	5	3 1/2	How fastened to Beams		
Double Angle Iron Side Keelson	5	3 1/2	Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	29	8
Side Intercostal Plate			Is the Stringer Plate attached to the outside plating?	yes	
do. Angle Irons			Angle Irons on ditto, No.	5 1/2 x 5 1/2 x 8	5 1/2 x 5 1/2 x 8
Attached to outside plating with angle iron			Stringer or Tie Plates, outside Hatchways	11	9
BILGE Angle Irons	5	3 1/2	Flat of Lower Deck	3	9 P.
do. Bulb Iron	6 1/2	6	Ceiling betwixt Decks, thickness and material	3	8 P. plates and space
do. Intercostal plates riveted to plating for length			in hold do. do.	3	8 P. solid to Bilge
BILGE STRINGER Angle Irons	5	3 1/2	Main piece of Rudder, diameter at head	5 1/2	5 1/2
Intercostal plates riveted to plating for length			do. at heel	3	3
SIDE STRINGER Angle Irons			Can the Rudder be unshipped afloat?	yes	

Transoms, material. Knight-heads. Hawse Timbers. Iron plates
Windlass Emerson & Walker Patent Scanned to Lap Carlings and plates

The FRAMES extend in one length from Bilge to Bilge and from Rudder to Gunwale Riveted through plates with 3/4 in. Rivets, about 7 apart.
The REVERSED ANGLE IRONS on floors and frames extend from Bilge to Bilge and from Rudder to Gunwale Riveted through plates with 3/4 in. Rivets, about 7 apart.

KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? yes And butts properly shifted? yes

PLATING. Garboard, double riveted to Keel, with rivets 1 1/8 in. diameter, averaging 5 1/2 ins. from centre to centre.
Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 3/4 in. diameter, averaging 3 1/2 ins. from centre to centre.
Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 3/4 in. diameter averaging 3 1/2 ins. from centre to centre.
Butts of three Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 1/16 thicker than the plates they connect.
Edges from bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets 3/4 in. diameter, averaging 3 1/4 ins. from cr. to cr.
Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 3/4 in. diameter, averaging 3 1/4 ins. from cr. to cr.
Edges of Main Sheerstrake, double or single riveted. Upper Sheerstrake, double or single riveted. double lower edge
Butts of Main Sheerstrake, treble riveted for half length amidships. Butts of Upper or Spar Sheerstrake, treble riveted half length amidships.
Butts of Main Stringer Plate, treble riveted for half length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for half length.
Breadth of laps of plating in double riveting 4 1/2 to 5 1/2 Breadth of laps of plating in single riveting nil

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? treble and double riveted
Waterway, how secured to Beams Scattered Gun^{re} (Explain by Sketch, if necessary.)
Beams of the various Decks, how secured to the sides? Ends turned down, riveted to gun^{re} No. of Breasthooks, four Crutches, three
What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? All the angles from Hookings & plates
Manufacturer's name or trade mark, Shin plating, Stringer plates and floor plates Stockton Mill Iron Co.
Butts Hookings and plates

The above is a correct description.
Builder's Signature, Mowney & Foster Surveyor's Signature, Wm Taylor

Workmanship. Are the butts of plating planed or otherwise fitted? planed
Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good or deficiencies? yes
Are the fillings between the ribs and plates solid single pieces? single pieces
Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? yes
Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? yes
Do any rivets break into or through the seams or butts of the plating? only a few cases

Masts, Bowsprit, Yards, &c., are wood in good condition, and sufficient in size and length. If of Iron or Steel give
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 riveting, quality of Materials, and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit

*The Anchors underlined in Red are known
as "Porters" Anchors the palms of which
in each case are only partially welded
on to the Flukes. please see letter*

NUMBER for EQUIPMENT		Fathoms.	Inches.	Test per Certificate.	Length & Size req'd per Rule	Test req'd per Rule.	ANCHORS, &c.	N ^o .	Weight. Ex. Stock.	Test per Certificate.	Weight req'd per Rule.	Test req'd per Rule.
16.065		240	1 7/8	40 1/2	240 = 1 7/8 40 5/10	40 5/10	Bowers ...	1	21.0.16	20.19.1.14	21.0.0	21 1/2 20
one complete		Chain ...	Breaking Strain 58 1/2	58 1/2	R.W.C.P.S.	31 1/2 March 75.	(State Machine where Tested, Date, and name of Super- intendent.)	1	19.2.10	20.8.1.21	19.1.20	20 5/20
Sail		Fore Sails,	Signature J. Hastings					1	19.1.14	20.4.0.7	19.1.20	20 7/20
and		Fore Top Sails,										
		Fore Topmast Stay Sails	Hmpn Strm Cbl	90	10 3/4							
		Main Sails,	Hawser ...	90	7 1/2							
		Main Top Sails,	Towlines ...	90	6							
		Warp quality <u>good</u>		270	4							
							Stream ...	1	9.0.4		9.0.0	
							Kedges ...	1	4.2.6		4.2.0	
								1	2.1.21		2.1.0	

Standing and Running Rigging R.I.W.C. Hemp sufficient in size and good in quality. She has one Long Boat and two others total 3.

The Windlass is Emerson & Walker, good Capstan 2 1/2 ft Wheel and Rudder good Pumps one of Engine & one each Hull also Bilge Pump

Engine Room Skylights. How constructed? Iron Cleanings Wood Skt How secured in ordinary weather? Thumb Screws,

What arrangements for deadlights in bad weather? Solid Shutters fitted with Bulls eyes

Coal Bunker Openings. How constructed? pt. Coaling plates How are lids secured? Hatch bars Height above deck? 6 in & 10 in

Scuppers, &c. What arrangements for clearing upper deck of water, in case of shipping a sea? Scuppers also Ports in Bulwark

Cargo Hatchways. How formed? Iron plates strengthened by angles and Rubbing bars

State size Main Hatch 2 1/2 ft each 13 x 8 1/2 ft Fore hatch 7 x 7 1/2 ft Quarter hatch 15 x 8 1/2 ft

If of extraordinary size, state how framed and secured? Each hatch (except Fore) has a good Shifting

What arrangement for shifting beams? Iron Beam; all have a wood fore and after.

Hatches, If strong and efficient? Solid

Order for Special Survey No. 2562 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. Built under S.S. and surveyed 1875 Jan 25 & Feb 12 & 15 & 18 & 22 & 26

Date 24th March 75 2nd. On the plating during the process of riveting 1359 1572 22531 April 2 5926 19 May 3 710 1314 1319 21 May 26 71

Order for Ordinary Survey No. — 3rd. When the beams were in and fastened, and before the decks were laid. —

Date — 4th. When the ship was complete, and before the plating was finally coated or cemented. —

No. 75 in builder's yard. 5th. After the ship was launched and equipped —

General Remarks, (State quality of workmanship &c.) Good.

She has a Raised Quarter Deck 67 feet long, at the front of which the Sheerstrake is doubled for about 31 feet with 9/16 in plating the side plating of Raised Deck increased 2/16 in in thickness and extends into the Bulwarks tapered in thickness before and abaft the same; Butts in the neighbourhood little riveted and Rules in other respects conformed to as to Scupping, Stringers &c.

A Toppallant Forecastle 33 feet long.
Total length of Water Ballast Tanks built on the "Mc Intyre" principle 154 1/2 feet, the Foremost Tank is 76 feet long and is separated from the after one by one space of frame, the Engines &c are fitted entirely aft; The Said Tanks have each been tested by a head of water extending above the Load-line.

She has a pair of Bilge Keels about 118 feet each in length, bulb 9 x 7/16 fitted between double angles 3 1/2 x 3 x 7/16 in.

Bridge House 29 1/2 feet long.

State if one, two or three decked vessel, or if spar on running deck, and lengths of — fore-castle & raised quarter deck, & of double — part double bottom. See above.

How are the surfaces preserved from oxidation? Inside Cement to Bilge paint above Outside Composition paint on Bottom paint above

I am of opinion this Vessel should be Classed 100 A 1.

The amount of the Entry Fee ... £ 5 : 0 : 0 is received by me,

Special ... £ 45 : 5 : 0 25th May 1875

Certificate ...

(Travelling Expenses) — Gen Committee June 3/75 Gen Committee June 10 75

Committee's Minute 28th May 1875

Character assigned 100 A 1

M.C. 75

Figure 1 assigned