

IRON SHIPS.

No. 1125 Survey held at Newcastle Date, first Survey 27 January Last Survey 28 September 1876 Recd. 13/10/76
"Knappton Hall" Master H. Seoomes

804.45 ONE, OR TWO DECKED VESSELS. THREE DECKED VESSELS.

Half moulded breadth 14.6 Total Depth if three or more Decks 19.0
 Depth from upper part of Keel to top of Upper Deck Beams 19.0 Total Girth of Half Mid-ship Frame 30.0
 Girth of Half Midship Frame 30.0 3rd Number 63.5 Length 220
 1st Number 63.5 Length 220
 2nd Number 139.700 4th Number 1270
 2nd Number 139.700 Breadths to Length 12.4
 Tonnage 903.17 Tonnage, as a 561.55 (Steamer, cut on the Beam)

Built at Newcastle
 When built 1876 Launched 11th August
 By whom built C. M. Palmer & Co.
 Owners Messrs Dixon & Harris
 Port belonging to London
 Destined Voyage Odessa
 If Surveyed while Building, Afloat, or in Dry Dock while building

Length on deck as per Rule 220 Feet. 0 Inches. Moulded Breadth 29 Feet. 0 Inches. Depth from top of Keel to Deck Beam, as per Rule 19 Feet. 0 Inches. Horse. 99 N° of Decks, one N° of Tiers of Beams two

Dimensions of Ship per Register, length, 222.0 breadth, 29.2 depth, 17.5

	Inches in Ship.	Inches required per Rule.		Inches in Ship.	Inches required per Rule.
Bar iron, depth and thickness	<u>9 x 2 1/2</u>	<u>8 x 2 3/8</u>	Flat Keel Plates, breadth and thickness	<u>34</u>	<u>10</u>
Centre through plate, depth and thickness	<u>7 1/2 x 3</u>	<u>7 1/4 x 2 3/8</u>	Plates in Garboard Strakes, breadth and thickness	<u>34</u>	<u>10</u>
Bar iron, moulding and thickness	<u>8 1/2 x 5 1/2</u>	<u>7 1/4 x 4 3/4</u>	Do. from Garboard to upper part of Bilges	<u>9</u>	<u>9</u>
Post do. do. do.	<u>21</u>	<u>23</u>	Do. of doubling at Bilge, or increased thickness, and length applied	<u>8 x 7</u>	<u>8</u>
Edge of Frames from moulding edge to building edge, all fore and aft	<u>4</u>	<u>3</u>	Do. from upper part of Bilge to lower edge of Sheerstrake	<u>37</u>	<u>11</u>
Size of Angle Iron, for 1/2 length amidships	<u>4</u>	<u>3</u>	Do. Sheerstrake, breadth and thickness	<u>37</u>	<u>11</u>
for 1/2 at each end	<u>4</u>	<u>3</u>	Do. of doubling at Sheerstrake, and length applied	<u>37</u>	<u>11</u>
Side Frames, size of Angle Iron	<u>3</u>	<u>3</u>	Butt Straps to outside plating, breadth and thickness	<u>8 1/4</u>	<u>7 1/2</u>
Depth and thickness of Floor Plate at line for half the length amidships	<u>1 1/2</u>	<u>7</u>	Lengths of Plating	<u>5</u>	<u>spaces</u>
Do. at the ends	<u>1 1/2</u>	<u>7</u>	Shifts of Plating, and Stringers	<u>as per Rule</u>	
Do. do. do. at Bilge Keelson	<u>1 1/2</u>	<u>7</u>	Gunwale Plate on ends of Awning, or Spar	<u>as per Rule</u>	
Do. height extended at the Bilges	<u>1 1/2</u>	<u>7</u>	Deck Beams, breadth and thickness	<u>as per Rule</u>	
Beams, Three Decked, Spar, or Awning Decked (No.) single or double Angle Iron, Plate or Tee Bulb Iron	<u>7</u>	<u>7</u>	Angle Iron on ditto	<u>as per Rule</u>	
Single or double Angle Iron on Upper edge	<u>7</u>	<u>7</u>	Tie Plates (fore and aft), outside Hatchways	<u>as per Rule</u>	
Average space	<u>7</u>	<u>7</u>	Diagonal Tie Plates on Beams (No. of Pairs,)	<u>as per Rule</u>	
Beams, Upper or Middle Deck (No. <u>62</u>) single, or double Angle Iron, Plate or Tee Bulb Iron	<u>7</u>	<u>7</u>	Planksheer material and scantling	<u>as per Rule</u>	
Single, or double Angle Iron, on Upper Edge	<u>7</u>	<u>7</u>	Waterways do. do.	<u>as per Rule</u>	
Average space	<u>7</u>	<u>7</u>	Flat of Deck do. do.	<u>as per Rule</u>	
Beams, Lower Deck or Orlop (No. <u>32</u>) single, or double Angle Iron, Plate or Tee Bulb Iron	<u>7</u>	<u>7</u>	How fastened to Beams	<u>as per Rule</u>	
Single, or double Angle Iron on Upper Edge	<u>7</u>	<u>7</u>	Stringer Plate on ends of Upper or Middle Deck	<u>as per Rule</u>	
Average space	<u>7</u>	<u>7</u>	Beams, breadth and thickness	<u>as per Rule</u>	
Keelson Centre line, single or double plate, or Intercoastal, size of Plates	<u>26</u>	<u>13 1/2</u>	Angle Irons on ditto (No. <u>one</u>)	<u>as per Rule</u>	
Do. Bulb Plate to Intercoastal Keelson	<u>7</u>	<u>7</u>	Tie Plates, outside Hatchways	<u>as per Rule</u>	
Do. Size of Angle Irons	<u>7</u>	<u>7</u>	Diagonal Tie Plates on Beams (No. of pairs,)	<u>as per Rule</u>	
Do. Side Intercoastal Keelson, size of Plates	<u>7</u>	<u>7</u>	Waterways materials and scantlings	<u>as per Rule</u>	
Do. Angle Irons on tops of Floors	<u>7</u>	<u>7</u>	Flat of Deck do. do.	<u>as per Rule</u>	
Do. Bilge Keelson, Bulb Iron	<u>7</u>	<u>7</u>	How fastened to Beams	<u>as per Rule</u>	
Do. do. Angle Irons	<u>7</u>	<u>7</u>	Stringer Plates on ends of Lower Deck or Orlop	<u>as per Rule</u>	
Do. Side Stringers (No. <u>two</u>) size of Angle Irons	<u>7</u>	<u>7</u>	Beams	<u>as per Rule</u>	

Transoms, material iron or, if none, in what manner compensated for.
 Knight-heads iron Hawse Timbers iron
 Bitts iron Patent Pall Bitt not required
 Frames extend in one length from Keel to gunwale Riveted through plates with (3/4 in.) Rivets, about 6 apart.
 Reverse Angle Irons on the floors extend across the middle line from hold beam stringer to hold beam stringer
 On all the Frames and to the gunwale on alternate frames
 Keelsons. Are the various lengths of Plates and Angle Irons properly connected? yes And are their butts properly shifted? yes
 Plates, Garboard, double or Riveted to Keel, double or at upper edge, with Rivets (1/2 in.) diameter, averaging (5 x 3 1/2 ins.) from centre to centre.
 Edges from Garboards to upper part of Bilge, worked Clencher, double or single 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 with butt straps (9 x 9) thick, double or single Riveted; with Rivets (3/4 in.) diameter averaging (3 1/4 ins.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below? no
 Edges of Sheerstrake, double or single Riveted. At upper edge single At lower edge double
 Butts from Bilge to Planksheers, worked Carvel with Butt Straps (7 x 11) thick, double or single Riveted; with Rivets (3/4 in.) diameter, averaging (3 1/4 ins.) from centre to centre. Breadth of laps in double Riveting (4 1/4) Breadth of laps in single Riveting (2 3/4)
 Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? double riveted
 Planksheer, how secured to the plating of the sides, { Explain by Sketch, } Gutter
 Waterway ,, ,, planksheer and to the Beams, { if necessary. }
 Beams of the various Decks, how secured to the sides? welded knees riveted No. of Breasthooks, 4 Crutches, 4
 What description of Iron is used for the Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Palmer & Co. iron
 Manufacturer's name or trade mark, Palmer & Co. iron

We certify that the above is a correct description of the vessel and particulars therein given.
 Builder's Signature, Wm. M. Palmer Surveyor's Signature, H. Seoomes

IRON 44-0152

Lloyd's Register Foundation

8348 9pm
Workmanship. Are the butts of plating planed or otherwise fitted? *Some are planed and some filed*
Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? *yes*
Do the fillings between the ribs and plates fill in solid with single pieces? or are they in short lengths of various thicknesses? *solid single piece*
Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *fairly so* and are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? *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 riveting, quality of Materials, and if stamped with Maker's name.
State also Length and Diameter of Lower Masts and Bowsprit *wood*

1 full unit. N. and

Number for equipment	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	N ^o .	Weight. Ex. Stock.	Test as per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.	
SAILS.												
Fore Sails,	270	17 1/2	37.4	0.0	1 7/16	37 2/10	Bowers	3	18.1.0	19.4.1.14	18.0.0	19.0.0
Fore Top Sails,	90	7 1/2		7/8		(State Machine where Tested, and name of Superintendent).		18.0.24	19.4.1.14	18.0.0	19.0.0	
Fore Topmast Stay Sails	90	9 1/2		1		Lloyd's Type P.H. R. Russell Sup		18.1.14	16.6.2.7	15.1.6	16.14	
Main Sails,	90	6		5		with 5th Stream	1	8.1.21		8.0.0		
Main Top Sails,	90	5				with 5th						
Warp	140	4				Kedges	2	4.1.0		4.0.0		
All of good quality.								2.1.7		2.0.0		

Her Standing and Running Rigging *heup* sufficient in size and *good* in quality. She has *one* Life Boat and *two* others
The present state of the *Windlass is in patent* Capstan *good* and Rudder *good* Pumps *good & sufficient*
Engine Room Skylights.—How constructed? *iron* How secured in ordinary weather? *by nut & screw bolts and brass plates*
What arrangements are there for deadlights in such for bad weather? *Sar Paulius &c*
Coal Bunker Openings.—How constructed *cast iron* How are lids secured? *by studs & bolts* How high above deck? *3 1/2*
Scuppers, &c.—What arrangements are there beyond the scuppers on deck, for clearing upper deck of water, in case of a sea coming on board? *see ports and three mooring pipes on each side*
Cargo Hatchways.—How formed? *iron beams riveted to beams* State size *17 feet by 9 feet*
If of extraordinary size, state how framed and secured? *ordinary*
What arrangement for shifting beams? *strong bulk beam with double supports on top*
Hatches, themselves, whether strong and efficient? *yes* **Main Hatchways.**—State size *11.6 x 9 feet*

Order for Special Survey No. *745* DATES of 1st. On the several parts of the frame, when in place, and before the plating was wrought } *built*
Date *29 Aug 1870* Surveys held 2nd. On the plating during the progress of riveting } *under*
Order for Ordinary Survey No. *—* while building 3rd. When the beams were in and fastened, and before the decks were laid } *special*
Date *—* as per 4th. When the ship was complete, and before the plating was finally coated or cemented } *survey*
No. *258* in builder's yard. Section 18. 5th. After the ship was launched and equipped

General Remarks, *This vessel is fitted with a water-ballast-tank (top plating 5/16) for a length of 132 feet amidships; and the ends of the main sheerstrakes are treble riveted for two-thirds her length amidships. She is the sister vessel to the "Mid-Survey", Report No. 11184, and is like her in all respects.*

In what manner are the surfaces preserved from oxidation? Inside *Cement & paint* Outside *paint & coposition*
I am of opinion this Vessel should be Classed *90 A.I.*
The amount of the Entry Fee£ *5* : : is received by me, *A. J. Reed*
Travelling Expenses (if any)£ : :
Special£ *42* : :
Certificate : :
Committee's Minute *14th October 1870*
Character assigned *90 A.I.*
Oct 1870
1870