

IRON SHIPS.

New 27/8/66

Survey held at Hull Date August 20th 1866
 on the Steamer Dagmar Master Winteringham
 Tonnage under tonnage deck 435.16 Built at Hull When built 1866 Launched 11th July
 Ditto of poop 82.55 or spar deck None By whom built Chas. & Wm. Earle Owners Smith & Co
 Ditto of engine room 82.67 Port belonging to Hull Destined Voyage Baltic
 Total Register tonnage 437.06
 Gross Tonnage 519.73

Surveyed while Building, Afloat, or in Dry Dock Special Survey during building & afloat in Victoria Docks

Length aloft 176 Feet. Extreme Breadth 25 Feet. Depth from top of Upper Deck Beam to top of Floor 14 Feet. Power of Engines 60 Horse. No. of Decks One

Dimensions of Ship per Register, length 175.5 breadth 25.1 depth 14

	Inches in Ship.	Inches required per Rule.	Inches in Ship.	Inches required per Rule.	Inches in Ship.	Inches required per Rule.
Keel, if bar iron, depth and thickness	6 3/4 x 2 1/2	7/16				
if plate iron, breadth and thickness	6 3/4 x 2 1/2	7/16				
Stem, if bar iron, moulding and thickness	8 1/2 x 4	7/16				
if plate iron, breadth and thickness	8 1/2 x 4	7/16				
Stern-post, if bar iron, moulding and thickness	2 1/2	7/16				
if plate iron, breadth and thickness	2 1/2	7/16				
Distance of Frames from moulding edge to moulding edge, all fore and aft	21	7/16				
Frames, Size of Angle Iron, single or double	3 1/2 x 3 1/4	7/16				
Reversed Iron, to every frame	3 3/4 x 2 1/2	7/16				
to every alternate frame	3 3/4 x 2 1/2	7/16				
Floors, depth and thickness of Floor Plate at mid line	18 x 7/16	7/16				
Ditto ditto at Bilge Keelson	8 x 7/16	7/16				
Size of Reversed Angle Iron, and No. on at top of Floor Plate	2 3/4 x 2 1/2	7/16				
Beams, Deck (No. 50) double Angle Iron, Plate, Tee, or Bulb Iron	6 1/2 x 7/16	7/16				
double or single Angle Iron, on upper edge	2 1/2 x 7/16	7/16				
average space between	42	7/16				
Hold, or Lower Deck (No.) double Angle, Tee, Plate, or Bulb Iron	None	7/16				
double or single Angle Iron on edge	None	7/16				
average space between	None	7/16				
Paddle, sided and moulded, thickness of Plate size of Angle Iron		7/16				
Engine " " " " " "		7/16				
Keelson, single or double plate, box, or intercostal	19 x 7/16	7/16				
Size of Plates Bulb	7 1/2 x 7/16	7/16				
Size of Angle Irons	4 1/2 x 3	7/16				
Side, single or double, plate, box, or intercostal	4 1/2 x 3	7/16				
Bilge (No. one) at each Bilge, single or double, plate, or box	4 1/2 x 3	7/16				
or double, plate, or box	6 1/2 x 7/16	7/16				

Ransoms, material None or, if none, in what manner compensated for.
 Knight-heads, and Hawse Timbers None

The Frames extend in one length from Keel to Summit rivetted through plates with (7/8 in.) rivets, about (7 in) apart
 The reverse angle irons on the floors extend in one length across the middle line from bilge to bilge
 " " " on the frames " " " from bilge to top of Hold Stringer & Summit alternately

Keelson, how are the various lengths of plates or angle irons connected? Butts of Angle Iron shifted & rivetted

Plates, Garboard, double rivetted to keel, double rivetted at upper edge, with rivets (3/8 in.) diameter, averaging (3 1/2 in.) apart.
 Edges from Garboards to upper part of bilge, worked clencher, double or single rivetted; with rivets (1/2 in.) diameter, averaging (2 1/8 in.) apart.

Butts from Keel to turn of bilge, worked carvel with butt straps (7/16) thick, double or single rivetted; with rivets (7/16 in.) diameter, averaging (2 1/8 in.) apart.
 Do the butt straps lap over and rivet through the lands of the strake below? Not in water strake

Edges from bilge to sheerstrake, worked carvel with a living piece thick, or clencher, double or single rivetted; with rivets (1/2 in.) diameter, averaging (1 1/8 in.) apart.
 Do the butt straps lap over and rivet through the lands of the strake below? Clencher

Edges of Sheerstrake, double or single rivetted? At upper edge rivetted to Gunwale angle iron At lower edge Double Rivetted
 Butts from bilge to planksheers, worked carvel with butt straps (9/16 x 9/16) thick, double or single rivetted; with rivets (7/16 in.) diameter, averaging (2 1/8 in.) apart. Breadth of laps in double rivetting (4 1/2) Breadth of laps in single rivetting (2 1/2)

Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted? Double rivetted, Keelsons with Straps over angle iron
 Planksheer, how secured to the plating of the sides Explain by sketch

Waterway " " planksheer and to the Beams if necessary Gunwale Waterway
 Deck Beams, how secured to the side? With welded pieces rivetted to Frames & Beams angle iron rivetted to Stringer & to plates

Hold or Lower Deck ditto None
 Paddle " " " " " " No. of breasthooks Four crutches —

What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.? Hopkins & Co
 Manufacturer's name or trade mark Name Stamped & Co

We certify that the above is a correct description of the several particulars therein given.
 Builder's Signature Alex. Gemmell Surveyor's Signature W. Davidson
 Manager

IRON 440 0006

4897 Iron

Workmanship. Are the lands or laps of the clewwork in all cases in breadth at least five and a half times the diameter of the rivets in double rivetted edges and butts, and at least three and a quarter 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? Yes
 Do the fillings between the ribs and plates fill in solid with single pieces? Yes or are they in short lengths of various thicknesses? No
 Do the holes for rivetting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes and are the rivet holes 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? Yes a few in the Butts at Edge

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 rivetting, quality of Materials, and if stamped with Maker's name.

No.	She has SAILS.	CABLES, &c., tested at <u>Lipton Ferry House Staffordshire</u>				ANCHORS, tested at <u>Lipton Ferry House Staffordshire</u>					
		No. on Chain seen by me.	No. and date on Certificate	Fathoms.	Inches.	Tested to Tons.	No.	No. on Anchor seen by me.	No. and date on Certificate.	Weight. Ex. stock.	Tested to Tons.
Completed and others as required	Fore Sails,	Chain <u>Stud</u> ...	<u>2549. 3. 7. 66</u>	<u>120</u>	<u>1 1/4</u>	<u>28.2.0.0</u>	Bowers .. <u>Martins</u>	<u>3</u>	<u>2550. 16. 8. 66</u>	<u>13. 5. 7</u>	<u>15. 10. 0</u>
	Fore Top Sails,	<u>Hemp</u>	<u>2552. 7. 7. 66</u>	<u>120</u>	<u>1 1/4</u>	<u>28.2.0.0</u>	Porter } Kedges .. <u>do</u> ...	<u>1</u>	<u>2534. 23. 7. 66</u>	<u>13. 0. 0</u>	<u>14. 15. 0</u>
	Fore Topmast Stay Sails,	Stream Cable <u>twelve links tested</u>	<u>2559. 27. 7. 66</u>	<u>90</u>	<u>3/8</u>	<u>5. 12. 2. 0</u>		<u>1</u>	<u>2530. 28. 7. 66</u>	<u>12. 2. 5</u>	<u>14. 8. 1</u>
	Main Sails,	Hawser		<u>90</u>	<u>7</u>	<u>8. 10. 0. 0</u>	Stream <u>Rodger</u>	<u>1</u>	<u>2523. 27. 7. 66</u>	<u>6. 0. 7</u>	<u>7. 5. 0. 0</u>
	Main Top Sails,	Towlines		<u>90</u>	<u>8 1/2</u>		Kedges .. <u>do</u> ...	<u>2</u>	<u>2522. 27. 7. 66</u>	<u>3. 1. 4</u>	<u>5. 2. 2</u>
		Warp		<u>90</u>	<u>5</u>				<u>2521. 27. 7. 66</u>	<u>1. 3. 21</u>	<u>4. 1. 2</u>
		All of <u>good</u> quality.	<u>120</u>	<u>3 1/2</u>							

Her Standing and Running Rigging Low & High sufficient in size and good in quality.

She has two Life Long Boat and two other Boats

The present state of the Windlass is good Capstan good and Rudder good Pumps good

Order for Special Survey DATES of 1st. On the several parts of the frame, when in place, and before the plating was wrought First Survey
 No. 97 Surveys held 2nd. On the plating during the progress of rivetting 31st March 66
 Date 27th April 66 while building 3rd. When the beams were in and fastened, and before the decks were laid
 Order for Ordinary Survey as per 4th. When the ship was complete, and before the plating was finally coated Last Survey
 No. _____ Section 18. 5th. After the ship was launched 20th August 1866
 Date _____

State if she has a Spar Deck No Poop Yes Forecastle Monkey

General Remarks,

The Butts of the Shearstrake for 126 feet amidships to be riveted

In what manner are the surfaces preserved from oxidation? Inside The flat Ceilings the remainder with Lead
 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,
 Special £ 26 : - : -
 Certificate (if required) £ - : - : -

Committee's Minute 28th August 1866

Character assigned A 1

Wm Davidson

This Special appears eligible to be Classed

