

7308 IRON SHIPS.

Rev 28/8/69

No. 947 Survey held at Liverpool Date 24 March to 21 August 1869
 on the SHIP "HAWARDEN CASTLE" Master Tom Jones.
 Tonnage under tonnage deck 1031.50 Built at Liverpool When built 1869 Launched 10 July - 69
 Ditto of poops & forecastle spar deck 88.09
 HOUSE - 12.55
 Ditto of engine room 1132.134
 CREW SPACE 31.34
 Total Register tonnage 1101.00
 Gross Tonnage 1132.34 Port belonging to Liverpool Destined Voyage Melbourne

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

Length aloft	Feet. Inches.	Extreme Breadth	Feet. Inches.	Depth from top of Upper Deck Beam to top of Floor	Feet. Inches.	Power of Engines	Horse.	Nº. of Decks
211 6		35 -		21 2 1/2				100
(Dimensions of Ship per Register, length 215. breadth 35.1 depth 21.)								
Keel, if bar iron, depth and thickness.....		Inches in Ship.	Inches required per Rule.					
" if plate iron, breadth and thickness		8 1/2 x 3	8 1/2 x 3					
Stem, if bar iron, moulding and thickness		8 1/2 x 3	8 1/2 x 3					
" if plate iron, breadth and thickness		8 1/2 x 3	8 1/2 x 3					
Stern-post, if bar iron, moulding and thickness		8 1/2 x 3	8 1/2 x 3					
" " if plate iron, breadth and thickness		8 1/2 x 3	8 1/2 x 3					
Distance of Frames from moulding edge to moulding edge, all fore and aft		24 in.	24 in.					
FRAMES, in BOTTOM.								
Frames, Size of Angle Iron, single or double.		5 x 3 x 9/16	5 x 3 x 9/16					
" " Reversed Iron, to every frame)		3 1/2 x 3 x 8/16	3 1/2 x 3 x 8/16					
TO H.B. STRANGERS every OTHER frame		2 1/2 x 3 x 8/16	2 1/2 x 3 x 8/16					
Floors, depth and thickness of Floor Plate at mid line		11 1/2 x 9/16	11 1/2 x 9/16					
" Ditto ditto at Bilge Keelson		11 1/2 x 10/16	11 1/2 x 10/16					
" Size of Reversed Angle Iron, and No. ONE at top of Floor Plate		3 1/2 x 3 x 8/16	3 1/2 x 3 x 8/16					
Beams, Deck (Nº.) double Angle Iron,		8 1/2 x 9/16	8 3/4 x 8/16					
AT ALTERNATE Plate, Tee, or Bulb Iron		4 x 3 x 7/16	3 1/2 x 3 x 6/16					
FRAMES		4 x 3 x 7/16	3 1/2 x 3 x 6/16					
" double or single Angle Iron, on UPPER edge....		4 x 3 x 7/16	3 1/2 x 3 x 6/16					
" average space between		48 in.	48 in.					
" Hold, or Lower Deck (Nº.) double Angle, Tee, Plate, or Bulb Iron		8 1/2 x 9/16	8 3/4 x 8/16					
" double or single Angle Iron on UPPER edge....		4 x 3 x 7/16	3 1/2 x 3 x 6/16					
" average space between		48 in.	48 in.					
" Paddle, sided and moulded, thickness of Plate same of Angle Iron		5 x 4 1/2 x 9/16	5 x 4 1/2 x 9/16					
Engine		5 x 4 1/2 x 9/16	5 x 4 1/2 x 9/16					
Keelson, single or double plate, box, or intercostal		10 x 8/16	10 x 8/16					
" Size of Plates		15 1/2 x 13/16	15 x 13 1/4					
" Size of Angle Irons		5 x 4 1/2 x 9/16	5 x 4 1/2 x 9/16					
" Side, single or double, plate, box, or intercostal		PLATES. 10/16	-					
" Bilge (No. ONE) at each Bilge, ANGLES		5 x 4 1/2 x 9/16	5 x 4 1/2 x 9/16					
ANGLE IRON		5 x 4 1/2 x 9/16	5 x 4 1/2 x 9/16					
Transoms, material iron or, if none, in what manner compensated for.								
Knight-heads, and Hawse Timbers iron plates and angles.								
The Frames extend in one length from Keel to Gunwals								
The reverse angle irons on the floors extend in one length across the middle line from side to side and to Hold Beam strainer								
" " on the frames " " from side to side to side to side to Hold Beam strainer								
Keelson, how are the various lengths of plates or angle irons connected? By Butt straps and angles being shifted.								
Plates, Garboard, double or riveted to keel, double at upper edge, with rivets (1 1/8 ins.) diameter, averaging (3 3/4 ins.) apart.								
" Edges from Garboards to upper part of bilge, worked clencher, double or single riveted; with rivets (7/8 in.) diameter, averaging (3 1/4 ins.) apart.								
" Butts from Keel to turn of bilge, worked carvel with butt straps (1 1/8 - 1 1/4) thick, double or single riveted; with rivets (7/8 in.) diameter, averaging (3 1/4 ins.) apart.								
" Edges from bilge to sheerstrake, worked carvel with a lining piece () thick, or clencher, double or single riveted; with rivets (7/8 in.) diameter, averaging (3 1/4 ins.) apart.								
" Edges of Sheerstrake, double or single riveted? At upper edge Single to Bulbark Plates At lower edge Double								
" Butts from bilge to plankshears, worked carvel with butt straps (1/2 - 1 1/4) thick, double or single riveted; with rivets (7/8 in.) diameter, averaging (3 1/4 ins.) apart. Breadth of laps in double rivetting (5 ins) Breadth of laps in single rivetting ()								
Butt Straps of Keelsons, Stringer and Tie Plates, double or single riveted? Double and Keelson Plates Straps								
Plankshears, how secured to the plating of the sides								
Waterway " plankshears and to the Beams								
Deck Beams, how secured to the side? Beams Knees welded to Bulb Iron Beams and Riveted to frames.								
Hold or Lower Deck ditto								
Paddle " "								
What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.? James & Barnes marked								
Manufacturer's name or trade mark Hopkins Middlesex - Plates, Kinnearley, Chorlton Hall Best								
We certify that the above is a correct description of the several particulars therein given.								
Builder's Signature R. & J. Evans & Co.								
Surveyor's Signature James Purdie								

Lloyd's Register Foundation

RON444-035

4308 *Tiburon* Frigat. 1 July 1869. *Nathaniel Bowring, Master, 1516. 672*
James Legge, M.R.A.S. M.R.A.S.

Workmanship. Are the lands or laps of the clenchwork in all cases in breadth at least five and a half times the diameter of the rivets in double riveted 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 fay 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*
 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? *None in Butts only*

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.)

*Fore - Main - Mizzen and Bowsprit - Two plates in the round 4/16 and main head plates 5/16.
 Single Rivetted at Edges and double at Butts - 3 angles to this mast. 4x3x7/16.
 Lower yards and Lower Topsail yards of Steel - Two plates in the round 4/16
 at slung. Tapering to 3/16 and 2/16 - 3 angles of Steel 4x2 1/2x2 1/2x1/4 - Single Rivetted Edge. Butt*

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.

Test as per Certificate.

Wght req'd per Rule.

Test req'd per Rule.

No.	Fore Sails,	Chain	150	1 3/4	55 2/10	13 1/4	55 1/4	Bowers	Cast iron	3	30 0.2	28 1/2 30	30	28 1/10
300	Fore Top Sails,	-	4740	1 3/4	55 2/10	13 1/4	55 1/4	4057	X	29.3.16	28 1/2 30	30	28 1/10	
Full	Fore Topmast Stay Sails	Heavy Stream Cable	90	1"				4047		25.2.7	25 1/2 30	25 1/2 0	25 1/2 0	
Swit	Main Sails,	Hawser	90	1 1/2				Stream	5.5...	1	12.2.20		12.0.0	
and	Main Top Sails,	Towlines	90	9.					"	6.0.0		6.		
	All of <u>good</u> quality.	Warp	90	7.				Kedges	2	3.0.0		3.	

Her Standing and Running Rigging *Mizzen and Bowsprit* sufficient in size and good in quality.

She has one Long Boat and three others.

The present state of the Windlass is not good. Capstan good and Rudder good. Pumps a pair of iron in Main Hold.
and sufficient to fore Bulwark.

Order for Special Survey DATES of Surveys held while building

No. <u>511</u>	1st. On the several parts of the frame, when in place, and before the plating was wrought	<u>under special survey the whole</u>
Date <u>12/12/169</u>	2nd. On the plating during the progress of rivetting	<u>time</u>
	3rd. When the beams were in and fastened, and before the decks were laid	
Order for Ordinary Survey	4th. When the ship was complete, and before the plating was finally coated	<u>of building</u>
No. _____	5th. After the ship was launched	

State if she has a Spar Deck Poop Yes or Forecastle Yes

General Remarks,

*The whole of the Butts of Plating Flamed -
 This vessel is well built - and in my opinion eligible for the class.
 A.S. as recommended below -*

In what manner are the surfaces preserved from oxidation? Inside By Portland Cement in Bottom and paint above.
 Ditto ditto Outside By paint -

I am of opinion this Vessel should be Classed A.S.

The amount of the Fee £ 5 : 1 : " is received by me,

John Purdie
Surf. M.S. Special £ 50 : 1 : " 261/69 M.W.

Certificate (if required) £ 10 : 0 : 0

Committee's Minute Liverpool, 27th August, 1869

Character assigned A.1. Built under Special Survey
(A.S.C.P.) Com- G. J. L.

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