

IRON SHIP.

16162

Mc 24/47

Survey held at

Gundey

Date, First Survey

11-11-75

Last Survey

22 April

1876

Master

W Lawrence

894.21

ONE, OR TWO DECKED, THREE DECKED VESSEL.
SPAR, OR AWNING-DECKED VESSEL.

Built at

Gundey

69.85

HALF BREADTH (moulded) 16 Feet. 7 1/2
DEPTH from upper part of Keel to top of Upper Deck Beams 21 5/4

When built

1876 Launched 28-3-76

13 24

GIRTH of Half Midship Frame (as per Rule) 33 0

By whom built

Coulson Brothers & Co

31 81

1st NUMBER 71 29

Owners

A Lawrence

omage

1009 14

1st NUMBER, if a THREE-DECKED VESSEL. [deduct 7 feet]

Port belonging to

London

ow Spar

57.65

LENGTH 108 7/9

Destined Voyage

Adelaide

Engine Room

age

eam

951 49

2nd NUMBER 141 7/1

PROPORTIONS—Breadths to Length 57.9

Depths to Length—Upper Deck to Keel 9.2

Main Deck ditto

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

BREADTH—Moulded... 33 6 DEPTH top of Floors to Upper Deck Beams 19 6 Do. do. Main Deck Beams 19 6 Power of Engines Horse. N° of Decks with flat laid 2 N° of Tiers of Beams 2

of Ship per Register, length, 203.8 breadth, 33.8 depth, 14.95

	Inches in Ship.		Inches per Rule.	
	In Ship.	In Ship.	Inches	Inches
depth and thickness	8	23/8	8	23/8
moulding and thickness... ..	8	21/4	7 1/4	"
POST for Rudder do. do.	7 1/4	23/8	7 1/4	"
for Propeller				
Distance of Frames from moulding edge to moulding edge, all fore and aft	23"			
(Class 100 A)				
FRAMES, Angle Iron, for 2/3 length amidships Do. for 1/3 at each end	4 1/2	3	8 1/2	3
EVERSED FRAMES, Angle Iron	3	3	7 1/2	3
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships	22	9 1/2	22	9 1/2
thickness at the ends of vessel	8 1/2	7 1/2	8 1/2	7 1/2
depth at 3/4 the half-bdth. as per Rule	11 1/2		11	7 1/2
height extended at the Bilges... ..	3.8		3.8	
AMS, Upper, Spar, or Awning Deck Angle or d'ble Ang. Iron, Plate or Tee Bulb Iron Angle or double Angle Iron on Upper edge Average space				
AMS, Main, or Middle Deck Angle or d'ble Ang. Iron, Plate or Tee Bulb Iron Angle, or double Angle Iron, on Upper Edge Average space... ..	8	3	8 1/2	3
AMS, Lower Deck, Hold, or Orlop Angle or d'ble Ang. Iron, Plate or Tee Bulb Iron Angle or double Angle Iron on Upper Edge Average space... ..	8	3	8 1/2	3
WELSONS Centre line, single or double plate, box, or Intercoastal, Plates Rider Plate Bulb Plate to Intercoastal Keelson Angle Irons Double Angle Iron Side Keelson Side Intercoastal Plate do. Angle Irons Attached to outside plating with angle iron	14	11 1/2	14	11 1/2
GE Angle Irons do. Bulb Iron do. Intercoastal plates riveted to plating for length	5	3 1/2	5	3 1/2
ME STRINGER Angle Irons Intercoastal plates riveted to plating for length	5	3 1/2	5	3 1/2
STRINGER Angle Irons	5	3 1/2	5	3 1/2

	Inches In Ship.	16ths In Ship.	Inches required	16ths required
Flat Keel Plates, breadth and thickness	34	10 1/2	34	10 1/2
PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges of doubling at Bilge, or increased thickness, and length applied	34	9 1/2	34	9 1/2
from up. part of Bilge to lr. edge of Sh'rstrake	36	9 1/2	36	9 1/2
Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied from Mn. to Upr. or Spar Dk. Sh'rstrake. Up. or Spar Dk. Sh'rstrake, breadth & thickness	36	11 1/2	36	11 1/2
Butt Straps to outside plating, breadth & thickness	10 1/2	16 3/4	9 3/4	14 3/4
Lengths of Plating	14 1/2		9 3/4	
Shifts of Plating, and Stringers... ..	4 1/2		9 3/4	
Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness... Angle Iron on ditto	3 1/2		3 1/2	
Tie Plates fore and aft, outside Hatchways Diagonal Tie Plates on Beams No. of Pairs. Plankshoe material and scantling Waterways do do. Flat of Upper Deck do do. How fastened to Beams Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness	40	10 1/2	40	9 1/2
Is the Stringer Plate attached to the outside plating? Yes				
Angle Irons on ditto, No. 2 3 1/2 x 3 1/2 x 7 1/2 4	5 3/2	7 1/2	5 3/2	7 1/2
Tie Plates, outside Hatchways	11	9 1/2	11	9 1/2
Diagonal Tie Plates on Beams, No. of pairs				
Waterways materials and scantlings				
Flat of Middle Deck do. do. How fastened to Beams	4		4	3 1/2
Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	29	8 1/2	29	8 1/2
Is the Stringer Plate attached to the outside plating? Yes				
Angle Irons on ditto, No. 2 3 1/2 x 3 1/2 x 8 1/2	3 1/2	8 1/2	3 1/2	8 1/2
Stringer or Tie Plates, outside Hatchways	11	9 1/2	11	9 1/2
Flat of Lower Deck				
Ceiling betwixt Decks, thickness and material in hold do. do. Main piece of Rudder, diameter at head do. at heel	2 1/2		2 1/2	
Can the Rudder be unshipped afloat? Yes				
Bulkheads No. One Thickness of Height up How secured to sides of ship Size of Vertical Angle Irons 5 1/2 x 3 1/2 x 6 1/2 and distance apart 30" ins. Are the outside Plates doubled two spaces of Frames in length?	6 1/2	5 1/2	6 1/2	5 1/2

Butt Straps of upper deck Spar & Stringer Plates and 3 Stringers by Ruler 1/16 inch thick 1/2 length

FRAMES extend in one length from *mid line of Main & Forecastle Stern Plates* Riveted through plates with 12 1/2 in. Rivets, about 6" apart.

REVERSED ANGLE IRONS on floors and frames extend *from* middle line to *6" above lower D' Strake* and to *Main D' Strake* alternately

WELSONS. Are the various lengths of Plates and Angle Irons properly connected? *well connected* And butts properly shifted? *well shifted*

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 12 1/2 in. diameter, averaging 3 1/2 ins. from centre to centre.

Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 12 1/2 in. diameter averaging 3 1/4 ins. from centre to centre.

Butts of *3* Strakes at Bilge for 1/2 length, treble riveted with Butt Straps *1 1/2* thicker than the plates they connect.

Edges from bilge to Main Sheerstrake, worked clencher, double *or single* riveted; with rivets 12 1/2 in. diameter, averaging 3 1/4 ins. from cr. to cr.

Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 12 1/2 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.*

Butts of Main Sheerstrake, treble riveted for *3* length amidships. Butts of Upper or Spar Sheerstrake, treble riveted *3* length amidships.

Butts of Main Stringer Plate, treble riveted for *3* length amidships. *Butts of Upper or Spar Stringer Plate, treble riveted for 3 length.*

Breadth of laps of plating in double riveting *6 diam* Breadth of laps of plating in single riveting *3 1/2 diam*

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? *treble & double*

Waterway, how secured to Beams *gutter* (Explain by Sketch, if necessary)

Beams of the various Decks, how secured to the sides? *welded braced ends riveted to sides* No. of Breasthooks, *6* Crutches, *4*

What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? *Angle & Bulb, Messend Iron & Floor and Hull plate, Corbett & Co*

Manufacturer's name or trade mark, *Angle & Bulb, Messend Iron & Floor and Hull plate, Corbett & Co*

The above is a correct description.

Builder's Signature, *Goulson Brothers* Surveyor's Signature, *Alexander*

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 of deficiencies? Very close
 Are the fillings between the ribs and plates solid single pieces? Solid single pieces
 Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Conform well
 Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? well countersunk & punched from faying surface
 Do any rivets break into or through the seams or butts of the plating? in a few cases at butts

Masts, Bowsprit, Yards, &c., are Iron & 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 16162 Iron

NUMBER for EQUIPMENT		Fathoms.	Inches.	Test per Certificate.	Length & Size req'd per Rule.	Test req'd per Rule.	ANCHORS.	No.	Weight. Ex. Stock.	Test per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.
SAILS.												
CABLES, &c.												
No.	SAILS.						Bowers	2580	27 3.22	27 2 2 0	27 3.0	26 18 0 0
2	Fore Sails,	270	1 1/2"	57.5 0 0	270 x 1 1/2"	57.5 0 0	Meas	2581	23 3.4	23 14 2 2	27 3.0	26 18 0 0
4	Fore Top Sails,	25 1/2	1 1/2"	71.5 0 0	270 x 1 1/2"	71.5 0 0	Public	2582	27 3.21	27 1 2 7 1/2	23 2.10	23 11 0 0
2	Fore Topmast Stay Sails	90	1 1/2"		90 x 1 1/2"		Stream		11 0 0		79.0 0	
2	Main Sails,		9"		9"		Kedges		5 2 7		5 2 0	
4	Main Top Sails,		5 1/2"		5 1/2"				2 3 7		2 3 0	
and others on all 4 & pieces												

Standing and Running Rigging Wire & Hemp sufficient in size and — in quality. She has 2 1/2 25H Long Boat and 3 other all 25H
 The Windlass is Harfield's patent 4 Capstan 15 1/2 x 14" and Rudder Good Pumps Low & Duff double acting
Engine Room Skylights How constructed? Much How secured in ordinary weather? —

What arrangements for deadlights in bad weather? —
 Coal Bunker Openings—How constructed? — How are lids secured? — Height above deck? —

Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? Has four pair ports & 3 pair Scuppers

Cargo Hatchways.—How formed? Bulk plate held with plate Iron Combings
 State size Main Hatch 15' 0" x 10' 4" m' Forehatch 7' 7 1/2" x 6' 9" m' Quarterhatch 7' 7 1/2" x 5' 9" m'

If of extraordinary size, state how framed and secured? —
 What arrangement for shifting beams? one in Main Hatch
 Hatches, If strong and efficient? Strong & efficient

Order for Special Survey No.	Date	Order for Ordinary Survey No.	Date	No.	DATES of Surveys held while building as per Section 18.	1st.	2nd.	3rd.	4th.	5th.
327	Jan'y 1876			73		On the several parts of the frame, when in place, and before the plating was wrought	11 24 29 (11 m 75)	3 6 13 15 20 21 23 24 29 (1)		
						On the plating during the process of riveting	7 10 11 17 18 22 25 27 (1 m 76)			
						When the beams were in and fastened, and before the decks were laid....	3 8 10 16 19 23 28 29 (2 m 76)			
						When the ship was complete, and before the plating was finally coated or cemented..	10 16 17 25 29 (3 m)			
						After the ship was launched and equipped	5 17 18 19 22 (4 m 76)			

General Remarks (State quality of workmanship, &c.)
 This vessel is formed with round stern full Poop and Forecastle Length of Poop 40 feet before Post and Forecastle 30 1/2 feet in length 15/10/75 Mid section tracing sub "puppy 16/10/75" provided that the depth of the Floors at the 3/4 x 1/2 Breadth be made as per rule as shown in mid section and the sizes & arrangements shown in said sketch & the rules in all other respects be carried out to satisfaction & will be eligible to class 100A
 Section subsequently handed to Builder to record certain alterations made thereon viz the rise of Floor increased and Bulwarks extended the alteration not affecting the scantling dimensions

State if one, two, or three, decked vessel, or if spar, or awning decked; and the lengths of poop, fore-castle, or raised quarter deck, and the length of double, or part double bottom.
 How are the surfaces preserved from oxidation? Inside Cement in lumps of Close Coarse Outside 3 coats red lead & 1 of Yellow
 I am of opinion this Vessel should be Classed 100 A also in Hulls & Upper Works 4 coats oil paint

The amount of the Entry Fee ... £ 5 : - : - is received by me, }
 Special Certificate ... £ 47 : 11 : - 187 }
 Travelling Expenses, if any, £

Committee's Minute 25th April 1876
 Character assigned 100A
 J. Alexander
 Lloyd's Register Foundation