

Steel IRON SHIP.

RECEIVED 24th. APR. 82.

No. Survey held at Glasgow Date, First Survey Oct 21, 1880 Last Survey April 1882

On the Steel Iron Austral

TONNAGE under Tonnage Deck } 3917.46
 Ditto of Third, or Lower Deck } 1597.84
 Ditto of Roop, or Raised Or. Dk. } 5315.30
 Ditto of Houses on Deck } 272.90
 Ditto of Tonnage } 5500.20
 Gross Tonnage }
 Less Crew Space } 259.92
Indies } 5320.28
 Less Engine Room } 2059.05
 Register Tonnage } 3209.23
 as cut on Beam }

ONE, OR TWO DECKED, THREE DECKED VESSEL,
~~STAR, OR TWINNING DECKED VESSEL.~~
 Half Breadth (moulded) 24.0 Feet.
 Depth from upper part of Keel to top of Upper Deck Beams 37.8
 Girth of Half Midship Frame (as per Rule) 35.6
 1st Number 117.4
 1st Number, if a 3-Decked Vessel .. deduct 7 feet 110.4
 Length 454
 2nd Number 581216
 Proportions— Breadths to Length... .. 9.2
 Depths to Length—Upper Deck to Keel... .. 12.51
 Main Deck ditto 37 feet 15.20

Master Jas Murdoch
 Built at Glasgow
 When built 1881 Launched 24 Dec 81
 By whom built Jas Elder & Co
 Owner Orient S S Co Ltd
 Residence 13 Fenchurch Lane
 Port belonging to Glasgow
 Destined Voyage and
 Surveyed while Building, Afloat, and in Dry Dock

LENGTH on deck as per Rule ... 454 Feet. Inches. BREADTH—Moulded... 40 Feet. Inches. DEPTH top of Floors to Upper Deck Beams ... 34.00 Feet. Inches. Do. do. Main Deck Beams... 33.95 Feet. Inches. Do. do. depth 26.0 Feet. Inches. Power of Engines ... 1000 Horse. N° of Decks with flat laid 4 N° of Tiers of Beams 4

Item	Inches in Ship.	Inches per Rule.						
KEEL, depth and thickness								
STEM, moulding and thickness								
STERN-POST for Rudder do. do.								
" " for Propeller								
Distance of Frames from moulding edge to moulding edge, all fore and aft								
FRAMES, Angle Iron, for 3/4 length amidships								
Do. for 1/2 at each end								
REVERSED FRAMES, Angle Iron								
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships								
" thickness at the ends of vessel								
" depth at 3/4 the half-bdth. as per Rule								
" height extended at the Bilges								
BEAMS, Upper, Spar, or Awning Deck								
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron								
Single or double Angle Iron on Upper edge								
Average space								
BEAMS, Main, or Middle Deck								
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron								
Single, or double Angle Iron, on Upper Edge								
Average space								
BEAMS, Lower Deck								
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron								
Single or double Angle Iron on Upper Edge								
Average space								
BEAMS, Hold, or Orlop								
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron								
Single or double Angle Iron on Upper Edge								
Average space								
KEELSONS Centre line, single or double plate, box, or Intercostal, Plates								
" Rider Plate								
" Bulb Plate to Intercostal Keelson								
" Angle Irons								
" Double Angle Iron Side Keelson								
" Side Intercostal Plate								
" do. Angle Irons								
" Attached to outside plating with angle iron								
BILGE Angle Irons								
" do. Bulb Iron								
" do. Intercostal plates riveted to plating for length								
BILGE STRINGER Angle Irons								
Intercostal plate riveted to plating for length								
SIDE STRINGER Angle Irons								
The FRAMES extend in one length from _____ to _____ middle line to _____ and to _____ alternately								
The REVERSED ANGLE IRONS on floors and frames extend _____ And butts properly shifted?								
KEELSONS. Are the various lengths of Plates and Angle Irons properly connected?								
PLATING. Garboard, double riveted to Keel, with rivets _____ in. diameter, averaging _____ ins. from centre to centre.								
" Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets _____ in. diameter, averaging _____ ins. from centre to centre.								
" Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets _____ in. diameter, averaging _____ ins. from centre to centre.								
" Butts of Strakes at Bilge for _____ length, treble riveted with Butt Straps _____ thicker than the plates they connect.								
" from Bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets _____ in. diameter, averaging _____ ins. from cr. to cr.								
" from Main Sheerstrake, worked carvel, double riveted; with rivets _____ in. diameter, averaging _____ ins. from cr. to cr.								
" Upper Sheerstrake, double or single riveted.								
" treble riveted for _____ length amidships. Butts of Upper or Spar Sheerstrake, treble riveted _____ length amidships.								
" treble riveted for _____ length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for _____ length.								
" riveting Breadth of laps of plating in single riveting _____								
" Plates, treble, double or single Riveted? _____ No. of Breasthooks, _____ Crutches, _____								
" Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c. ? _____								

Handwritten notes:
 Report on the
 Austral
 1881
 J. Murdoch

Surveyor's Signature, _____
 Surveyor to Lloyd's Register of British and Foreign Shipping.

Workmanship. Are the butts of plating planed or otherwise fitted? 5693 2/2
 Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies?
 Are the fillings between the ribs and plates solid single pieces?
 Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other?
 Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces?
 Do any rivets break into or through the seams or butts of the plating?

Masts, Bowsprit, Yards, &c., are _____ in _____ 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

4 Mast

NUMBER for EQUIPMENT		Fathoms.	Inches.	Test per Certificate.	Inches per Rule.	Machine where Tested & Suprntd.	ANCHORS, No.	Weight. Ex. Stock.	Test per Certificate.	Weight req'd per Rule.	Machine where Tested & Suprntd.
SAILS.	Chain						Bower Anchors				
	(State Machine where Tested, Date, or No. of Certificate, & Name of Superintendent.)						(State Machine where Tested, Date, or No. of Certificate, & Name of Superintendent.)				
Fore Sails,	Iron Stream Chain						Stream Anchor				
Fore Top Sails,	or Steel Wire ..						Kedge ...				
Fore Topmast Stay Sails,	or Hempen Strm } Cable						2nd Kedge ...				
Main Sails,	Towline, Hemp										
Main Top Sails,	or Steel Wire ..										
and	Hawser										
	Warp										
	quality										

anchors chain part of equipment sufficient in size and in quality. She has Long Boat and Pumps

Standing and Running Rigging _____ sufficient in size and _____ in quality. She has _____ Long Boat and _____
 The Windlass is _____ Capstan _____ and Rudder _____ Pumps _____
Engine Room Skylights.—How constructed? _____ How secured in ordinary weather?
 What arrangements for deadlights in bad weather? _____ Height above deck?
Coal Bunker Openings.—How constructed? _____ How are lids secured?
Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea?
Cargo Hatchways.—How formed? _____
 State size **Main Hatch** _____ Forehatch _____ Quarterhatch _____
 If of extraordinary size, state how framed and secured?
 What arrangement for shifting beams?
Hatches, If strong and efficient?

Order for Special Survey No. _____ Date _____
 Order for Ordinary Survey No. _____ Date _____
 No. _____ in builder's yard. **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 }
 2nd. On the plating during the process of riveting }
 3rd. When the beams were in and fastened, and before the decks were laid.... }
 4th. When the ship was complete, and before the plating was finally coated or cemented.. }
 5th. After the ship was launched and equipped }

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

Inquiries - C. I. D. A. 146 1/2" & 2 of 86" Cyls 60" Stroke 95 lbs. - 1000 HP. Jno. Elder & Co. Makers

State if one, two, or three decked vessel, or if spar, or awning decked; and the lengths of poop, bridge, forecastle, or raised quarter deck. (If double bottom, state particulars on separate form.)

How are the surfaces preserved from oxidation? Inside *Cement and Paint* Outside *Paint*

I am of opinion this Vessel should be Classed *100 A 1. Sub-40 1/2. 2. 1st 1/2*
 The amount of the Entry Fee ... £ : : is received by me, }
 Special ... £ : : 18 }
 Certificate ... : :
 (to be sent as per margin).

(Travelling Expenses, if any, £ _____)
 Committee's Minute _____ 18

Character assigned _____

