IRON SHIP. 17178

Rec 16/10/76

No. 4317 Survey held at Glasgow Date, First Survey 15th March Last Survey 12th October 18

On the 13th "Star of the East" Master P. Pomroy

TONNAGE under Tonnage Deck 674.75
~~Ditto of Third, Spar, or Awning Deck~~
Ditto of Poop, or Raised Qr. Dk. 55.16
Ditto of Houses on Deck 26.96
~~Ditto of Forecastle~~
Gross Tonnage 756.87
Less Crew Space 23.27
733.60
Less Engine Room
Register Tonnage / Cut on Beam 733.60

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

	Feet.
HALF BREADTH (moulded)	15.16
DEPTH from upper part of Keel to top of Upper Deck Beams	20.37
GIRTH of Half Midship Frame (as per Rule)	30.66
1st NUMBER	66.19
~~1st NUMBER, if a THREE DECKED VESSEL~~ [deduct 7 feet	
LENGTH	175.75
2nd NUMBER	11.632
PROPORTIONS—Breadths to Length	5.7
Depths to Length—Upper Deck to Keel	8.6
~~Main Deck Beams~~	

Built at Whiteinch Glasgow
When built 1876 Launched 21st Sept. 1876
By whom built Charles Connell & Co.
Owners Edwin Smith Warwick Park S. Bridgeport
Port belonging to Plymouth
Destined Voyage Singapore
If Surveyed while Building, Afloat, ~~or in Dry Dock.~~

PLANS CASE

LENGTH on deck as per Rule ... Feet. 175 Inches. 75 | **BREADTH**— Moulded... Feet. 30 Inches. 32 | **DEPTH** top of Floors to Upper Deck Beams / Do. do. Main Deck Beams Feet. 18 Inches. 5 | ~~Power of Engines~~ ... Inches. | N°. of Decks with flat laid One | N°. of Tiers of Beams Two

Dimensions of Ship per Register, length, 183.3 breadth, 30.7 depth, 18.5

	Inches in Ship.			Inches per Rule.		
KEEL, depth and thickness	7½ × 2¼			7½ × 2¼		
STEM, moulding and thickness	7 × 2¼			7 × 2¼		
STERN-POST for Rudder do. do.	7 × 2¼			7 × 2¼		
~~for Propeller~~						
Sq. of Frames from moulding edge to sawing edge, all fore and aft	22"			22 (Class 100A)		
	Inches. In Ship.	Inches. In Ship.	16ths. In Ship.	Inches per Rule	Inches per Rule	16ths per Rule
FLOORS, Angle Iron, for ⅗ length amidships	4	3	7	4	3	7
Do. for ⅕ at each end			6			6
REVERSED FRAMES, Angle Iron	3	3	6	3	3	6
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships	20		8	20		8
thickness at the ends of vessel			7			7
depth at ¾ the half-bdth. as per Rule	10			10		
height extended at the Bilges	40			40		
BEAMS, Upper, ~~Spar, or Awning~~ Deck ~~Single or Bulb Ang. Iron, Plate or Tee~~ Bulb Iron	7		7	7		7
~~Single or~~ double Angle Iron on Upper edge	3	3	6	3	3	6
Average space	44			44		
~~**BEAMS, Main, or Middle Deck**~~ ~~Single or Bulb Ang. Iron, Plate or Tee Bulb Iron~~						
~~Single, or Double Angle Iron, on Upper Edge~~						
~~Average space~~						
BEAMS, ~~Lower Deck,~~ Hold, ~~or Orlop~~ ~~Single or Bulb Ang. Iron, Plate or Tee~~ Bulb Iron	7½		7	7½		7
~~Single or~~ double Angle Iron on Upper Edge	3	3	6	3	3	6
Average space	44			44		
KEELSONS Centre line, single ~~or double~~ plate, ~~box, or Horizontal, Plates~~	12		10	12		10
" Rider Plate	10		10	10		10
" ~~Bulb Plate to Intercostal Keelson~~						
" Angle Irons	4½	3	7	4½	3	7
" ~~Double Angle Iron Side Keelson~~						
" ~~Side Intercostal Plate~~						
" do. ~~Angle Irons~~						
" ~~Attached to outside plating with angle iron~~						
BILGE Angle Irons	4½	3	7	4½	3	7
" do. ~~Bulb Iron~~						
" do. Intercostal plates riveted to plating for 1/2 length			7			–
BILGE STRINGER Angle Irons	4½	3	7	4½	3	7
~~Intercostal plates riveted to plating for length.~~						
~~**SIDE STRINGER** Angle Irons~~						

	Inches. In Ship.	16ths. In Ship.	Inches. per Rule	16ths per Rule
~~Bilge Keel Plates, breadth and thickness~~				
PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges	32	9	32	9
~~of bedding at Bilge, or increased thickness, and length applied~~		8		8
fm up. part of Bilge to lr. edge of Sh'rstrake		8		8
Main Sheerstrake, breadth and thickness	33	11	33	10
~~of Bilge at Sheerstrake, & length applied from Mn. to Upr. or Spar Dk. Sheerstrake. Up. or Spar Dk. Sheerstrake, breadth & thickness~~				
Butt Straps to outside plating, breadth & thickness	16¾	6 9/16	16¾	6 9/16
Lengths of Plating	Eight Spans.		5 Spans	
Shifts of Plating, and Stringers	Three Spans		3 Spans	
Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness	35	8	34	8
Angle Iron on ditto	4½ × 3 × 7/16		4½ × 3 × 7	
Tie Plates fore and aft, outside Hatchways	10	8	10	8
~~Diagonal Tie Plates on Beams No. & Place, Thickness, width and sectional~~				
Waterways do. do.	Gutter			
Flat of Upper Deck do. do. Y. Pine	3½		3½	
How fastened to Beams	Bolt & Screw bolts			
~~Stringer Plate on side of Main or Middle Deck Beams, breadth and thickness~~				
~~Is the Stringer Plate attached to the outside plating?~~				
~~Angle Irons on ditto, No.~~				
~~Tie Plates, outside Hatchways~~				
~~Diagonal Tie Plates on Beams, &c. & place~~				
~~Waterways outside and sectional~~				
~~Flat of Middle Deck do. do.~~				
~~How fastened to~~ Beams				
Stringer Plates on ends of ~~Lower Deck~~, Hold ~~or Orlop~~ Beams	25	7	25	7
Is the Stringer Plate attached to the outside plating?	Yes		Yes	
Angle Irons on ditto, No. 2	3½ × 3½ × 7/16		3½ × 3½ × 7/16	
Stringer or Tie Plates, outside Hatchways	10	7	10	7
~~Flat of Lower Deck~~				
Ceiling betwixt Decks, thickness and material	Battens			
in hold do. do.	2½ Y. Pine		2½	
Main piece of Rudder, diameter at head	4½		4½	
do. at heel	2¾		2¾	
Can the Rudder be unshipped afloat? No				
Bulkheads No. 1 Thickness of		6/16		6/16
Height up Main deck				
How secured to sides of ship Double frames				

Transoms, material. Knight-heads. Hawse Timbers. Plate iron & Teak

Windlass Napier's patent Pall Bitt not required

Size of Vertical Angle Irons 3 × 3 × 6 and distance apart 30 ins.
Are the outside Plates doubled two spaces of Frames in length? Yes

The **FRAMES** extend in one length from Keel to gunwale Riveted through plates with 3/4 in. Rivets, about 6 apart.
The **REVERSED ANGLE IRONS** on floors and frames extend from middle line to Upper deck and to Hold Stringer alternately
KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? Yes And butts properly shifted? Yes
PLATING. Garboard, double riveted to Keel, with rivets 1/8 in. diameter, averaging 5½ ins. from centre to centre.
Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 7/8 in. diameter, averaging 3¾ ins. from centre to centre.
Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 3/4 in. diameter averaging 3¼ ins. from centre to centre.
Butts of 2 Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 1/16 thicker than the plates they connect. (and butts of outside strakes over 44" broad)
Edges from bilge to Main Sheerstrake, worked clencher, ~~double or~~ (2 strakes) single riveted; with rivets 3/4 in. diameter, averaging 3 ins. from cr. to cr.
Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 3/4 in. diameter, averaging 3 ins. from cr. to cr.
Lower **Edges of Main Sheerstrake,** double ~~or Bilge~~ riveted. ~~Upper Sheerstrake, double or single riveted.~~
Butts of Main Sheerstrake, treble riveted for 1/2 length amidships. ~~Butts of Upper or Spar Sheerstrake, double riveted~~ ~~length amidships.~~
Butts of Main Stringer Plate, treble riveted for 1/2 length amidships. ~~Butts of Upper or Spar Stringer Plate, treble riveted~~ ~~length.~~
Breadth of laps of plating in double riveting 5¼ 4½ Breadth of laps of plating in single riveting 3
Butt Straps of Keelsons, Stringer and Tie Plates, treble, and double ~~or Bilge~~ Riveted?
Waterway, how secured to Beams — (*Explain by Sketch, if necessary.*)
Beams of the various Decks, how secured to the sides? Knees welded to Beams No. of Breasthooks, 4 Crutches, 3
What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Best
Manufacturer's name or trade mark, Anglesmossend & Clifton Plates Fox Head, Cowlitt & Govan.

The above is a correct description.
Builder's Signature, Charles Connell & Co *Surveyor's Signature,* J. Lawrence
Surveyor to Lloyd's Register of British and Foreign Shipping.

© 2019 Lloyd's Register Foundation

1120468-0417

manship. Are the butts of plating planed or otherwise fitted? Planed

the edges of the carvel work and of the butts fay close together throughout their length without requiring any making good of deficiencies? Yes

the fillings between the ribs and plates solid single pieces? Yes

the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes

Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? Yes

Do any rivets break into or through the seams or butts of the plating? In butts only

6 ~6

17178 Iron

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

Fore Mast 67.10" × 24½ × 7 6/16 } Five plates in the round, edges double, butts trible
Main Mast 71.12½ × 24½ × 7 6/16 }

Bowsprit 28.6 × 24½ × 7 6/16 Fore & Main Yards 64.0" × 16" × 6 6/16 Edges single, butts

NUMBER for EQUIPMENT 12.40.7

	SAILS.	CABLES, &c.	Fathoms.	Inches.	Test per Certificate.	Length & Size req'd pr Rule.	Test req'd per Rule.
		Chain	275.⅓	1 9/16	43 9/10 61 4/10	270-1 9/16	43 9/10 61 4/10
N°. Two Suits	Fore Sails,	(State Machine where Tested, Date, & name Superintndt.) Tested at Tipton 21st & 22nd September 1876 Certificates Signed S. Fergusson					
	Fore Top Sails,						
	Fore Topmast Stay Sails	~~Hemp~~ Strm Cbl	90	7/8		90-7/8	
		Hawser					
	Main Sails,	Towlines ...	90	8½		90-8"	
	Main Top Sails,	Warp	90	5½		90-5"	
	and	quality Good					

ANCHORS.	N°.	Weight. Ex. Stock.	Test per Certificate	W'ght req'd per Rule.	Test req'd per Rule.
Bowers	3	23.3.14	23.15.2.14	23.2.0	23.1
		23.3.7	23.14.2.21	23.2.0	23.10.0
		20.1.0	20.19.1.14	19.3.25	20.14.0
(State Machine where Tested, Date, & name of Superintndt.) Tested at Tipton 30th September 1876 Certificates Signed S. Fergusson					
Stream ...	1	10.0.1		10.0.0	
Kedges ...	2	5.0.4 2.2.7		5.0.0 2.2.0	

Standing and Running Rigging Wire & Hemp sufficient in size and good in quality. She has 2 Life ~~Long~~ Boats and 2 Others.

The Windlass is Napier's Patent Capstan Good and Rudder Good Pumps Ballast Patent

~~Engine Room Skylights.—How constructed?~~ ~~How secured in ordinary weather?~~

~~What arrangements for ventilation in bad weather?~~

~~Cabin Rudder Casings.—How constructed?~~ ~~How are they secured?~~ ~~Height above deck?~~

Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? Four ports, four scuppers, and two pipes on each side.

Cargo Hatchways.—How formed? Iron Coamings

State size **Main Hatch** 14'8" × 9'.0" Forehatch 7'.3" × 6'.0" Quarterhatch 7'.2" × 6'.0"

If of extraordinary size, state how framed and secured? Usual Size

What arrangement for shifting beams? One in Main Hatchway

Hatches, If strong and efficient? Yes (Solid)

Order for Special Survey No. 1149

Date 18th February 1876

~~Order for Ordinary Survey No.~~

~~Date~~

No. 102 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 } March 15. 20. 24. 28. April 6. 12. 17. 24

2nd. On the plating during the process of riveting May 2. 10. 15. 16. 22. 29. June 1. 9. 13. 20. 26

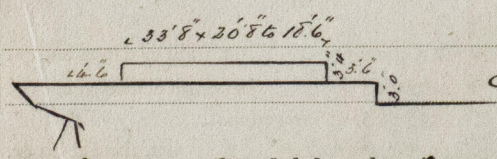
3rd. When the beams were in and fastened, and before the decks were laid.... } 29. July 4. 28. 31. August 7. 11. 14. 23. 31

4th. When the ship was complete, and before the plating was finally coated or cemented.. } September 5. 12. 21. 27 30 October 4. 10. 11

5th. After the ship was launched and equipped + 12th 1876

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

The workmanship is good. She is built in accordance with the approved Midship Section attached. The Sheerstrake is 1/16 thicker than required by Rule.



Deck House 33'.10 × 17'.4". Monkey Forecastle 32'.0"
with Liverpool and Monkey

~~State if one, two, or three, decked vessel, or if spar, or awning deck; and the length of~~ poop, forecastle, ~~or raised quarter deck, and the length of deckhouse, or part double bottom.~~

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

I am of opinion this Vessel should be Classed + 100 A.1

The amount of the Entry Fee ... ...£ 5 : " : " is received by me, W. Lawrence

Special ... ...£36 : 11 : " October 1876

Certificate ... Gratis

Oct 10th

(Travelling Expenses, if any, £3.3.0.)

Committee's Minute 17th October 1876

Character assigned 100 A 1

A 1 & P
1 D R 2 to B

J.P.

~~This vessel~~ has been built in accordance w approved sketch & Mide Section and is therefore to be classed 100 A.1. recommended

18K 2 to B.

W.J. 16/10/76

© 2019 Lloyd's Register Foundation