

1 or 2 Dks., R.Q.Dk.,

nd Pt. Awng. Dk.

STEEL STEAMER.

Received at London Office 15 MAR 1894

State if Report is also sent on the Machinery of the Vessel

Date of completion of Report 13th March 1894Date of First Survey 11th August 1893

Port of Glasgow

Last Survey 12th March 1894

Rtg. Brigantine (3masts)

Master Capt. Turpie

Year of appointment (1) As master in service of owner of present vessel: 1893
(2) As master of this vessel: 1893

Built at Glasgow

When built 1893-1894 Launched 17th Nov. 1893

By whom built Messrs R. Napier & Son

Owners London Missionary Society

Managers

(Where necessary to be entered in Reg. Book.)

Residence 4 Bloomfield St. London.

Port belonging to London

No. 12945 Survey held at Glasgow

On the Steel Screw Steamer John Williams

TONNAGE under Tonnage Deck... 544.78

Do. of Poop

Do. of Raised Gr. 118.26

Do. of Break... 118.26

Do. of Bridge House

Do. of Forecastle

Do. of Houses on Deck

Do. of excess of Hatchways

Do. above Crown of Engine Room 662.99

Gross Tonnage 662.99

Less Crew Space 62.11

Less above Crown of Engine Room 212.16

TONNAGE FOR FEES 600.88

Less Engine Room 212.16

Less Navigation Spaces 18.85

Register Tonnage 369.87

as cut on Beam ... 369.87

TWO DECKED VESSEL.

CLASS 100A.1 Steel

FEET.

Half Breadth (moulded) 15.83

Depth from upper part of Keel to top of Main Deck Bms. 16.67

Girth of Half Midship Frame (as per Rule) 28.45

1st Number 60.95

Length 179.79

2nd Number 10958.2

Proportions—Breadths to Length 6.67

Depths to Length—Main Deck to top of Keel 10.79

Destined Voyage South Seas

If Surveyed while Building, Afloat, or in Dry Dock while building afloat

LENGTH on Deck as per Rule	Feet.	Inches.	BREADTH— Moulded.....	Feet.	Inches.	DEPTH— Top of Floors to Main Deck Beams.	Feet.	Inches.	Power of Engines	Horse.	No. of Decks with Flat laid	No. of Tiers of Beams
	179	9½		31	8		13	11		80	Two	Two
Dimensions of Ship per Register. Length, 188.6 breadth, 32.0 depth, 13.5. Moulded Depth, ft. 16 ins. 0. Round of Beam 8 inches.												

Dimensions of Ship per Register, Length, 179.6 breadth, 32.0 depth, 13.5 Moulded Depth, ft. 16 ins. 0 Round of Beam 8 inches.

FRAMING.						FORGINGS AND CASTINGS.						
	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Appro.	20ths per Rule ved.		Inches in Ship.	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule Or as Appro.	16ths or 20ths per Rule ved.	
FRAME, Angles, 1 1/2" x 3" Bars, for 1/2 length amidships	3 1/2	3	7	3 1/2	3	KEEL, Bar or Side Plates depth and thickness	7 1/2 x 7/8	7 1/2 x 7/8	7 1/2 x 7/8			
Do. for 1/2 at each end	3 1/2	3	6	3 1/2	3	STEM, moulding and thickness	7 x 2 1/8	7 x 2 1/8	7 x 2 1/8			
Do. in way of Double Bottoms at Solid Floors	3	3	7	3	3	STERN-POST for Rudder do. do.	7 x 4 1/4	7 x 4 1/4	7 x 4 1/4			
on all floors for 1/2 aft at intermdt. Bkts.	4	3	8	4	3	for Propeller	7 x 4 1/4	7 x 4 1/4	7 x 4 1/4			
Distance of Frames from moulding edge to moulding edge, all fore and aft	22			22		MAIN PIECE of Rudder, diameter at head	5 1/4	5 1/4	5 1/4			
REVERSED FRAME, Angles	3	2 1/2	6	3	2 1/2	do. at heel	2 3/4	2 3/4	2 3/4			
DEEP FRAMING, depth of girder						RUDDER, how constructed	Single plate forged frame					
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships						Can the Rudder be unshipped afloat?	Yes					
in way of Engines and Boilers						KEELSONS AND STRINGERS.						
thickness at the ends of vessel						CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate						
depth at 1/2 the half breadth, as per Rule						Rider Plate						
height extended at the Bilges						Bulb Plate to Intercoastal Keelson						
FLOORS & BRACKETS, in Cell Dble Bottoms						Horizontal Plates on Floors						
Distance apart	22		6	22		Angles						
CENTRE GIRDER, in Double Bottom, depth and thickness	33	6 1/2	8.7.6	33	8.7.6	SIDE KEELSON, Angles						
Angles, Top	3 1/2	3 1/2	7	3 1/2	3 1/2	Bulb or Plate above floors for length						
Bottom						Intercoastal Plate for length						
SIDE GIRDERS, number and thickness	one		6	one		Attached to outside plating with Angle						
Angles	3	2 1/2	6	3	2 1/2	BILGE KEELSON, Angles						
MARGIN PLATE, depth (exclusive of flange) and thickness	18		7	18		Bulb or Plate above floors for length						
Angles	3	3	7	3	3	Intercoastal Plate for length						
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	33		7	33		Attached to outside plating with Angle						
thickness in Engine and Boiler space						BILGE STRINGER Angles	4 1/2	3	7	4 1/2	3	7
Remainder in Holds						Bulb Plate for length						
BEAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	7		8	7		Intercoastal Plate for length						
Angles on Upper Edge						Attached to outside plating with Angle						
Average space	44		44			SIDE STRINGER Angles						
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	7	3	7	7	3	Bulb or Intercoastal Plate for length						
Angles on Upper Edge						Attached to outside plating with Angle						
Average space	44		44			Main and Raised Quarter Deck Stringer Plate, breadth and thickness	36	8	36	8		
BEAMS, Hold, Plate or Tee Bulb						Angle on ditto	3 1/2 x 3/2 x 7	3 1/2 x 3/2 x 7	3 1/2 x 3/2 x 7			
Angles on Upper Edge						Tie Plates fore & aft, outside Hatchways	9	8	9	8		
Average space	44		44			Diagonal Tie Plates on Bms, No. of Bms						
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb						Main Dk* Iron or Steel for 1/2 length						
Angles on Upper Edge						R. Q. Dk* Iron or Steel for 1/2 length						
Average space	44		44			Wood Deck, Material & thickness	4 x 3 Oak	4 x 3 Oak	4 x 3 Oak			
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	6	3	7	6	3	Lower Deck Stringer Plate, breadth and thickness	23	7	23	7		
Angles on Upper Edge						Angles on ditto, No. 2	3 1/2 x 3/2	7	3 1/2 x 3/2 x 7			
Average Space	44		44			Tie Plates, outside Hatchways	9	7	9	7		
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	7	3	8	7	3	Deck* Material and thickness	3/4 pin	3/2	3/2			
Angles on Upper Edge						Hold Stringer Plate						
Average space	44		44			Angles on ditto, No.						
PILLARS, In 'tween Decks, Size and Spacing	2 1/2	44	2 1/2	44		Poop Deck Stringer Plate, breadth & thickness						
Hold	2 3/4	44	2 3/4	44		Angle on ditto						
Quarter, 'tween Dks.						Tie Plates						
in Hold						Deck, Material and thickness						
WEB FRAMES, In Fore Body, No. and Spacing						Bridge Deck Stringer Plate, brdth & thickness	23	6	23	6		
Brdth. & Thickness	15		7	15		Angle on ditto	6 x 2 1/2 x 2 1/2	3/8	3 x 3 x 7			
No. of Side Stringers						Tie Plates						
WEB FRAMES, In E. & B. Space, No. & Spacing						Deck, Material and thickness	2 1/2	6	2 1/2	6		
Brdth. & Thickness						Forecastle Deck Stringer Plate, brdth & thickness	18	6	18	6		
WEB FRAMES, In After Body, No. and Spacing						Angle on ditto	3 x 3 x 7	7	3 x 3 x 7			
Brdth. & Thickness						Tie Plates						
No. of Side Stringers						Deck, Material and thickness	2 1/2	6	2 1/2	6		
Size of Angles on Tee Bars to Web Frames	3	2 1/2	6	3	2 1/2							
BRACKET PLATES to Stringers between Web Frames, Depth and Thickness												

PLATING. RIVETING. STRAKES. AS IN SHIP. PER RULE OR AS APPROVED. EDGES. BUTTS. Includes tables for strakes (A-P), doubling of flat plate keel, and riveting details for main stringer plate, butts, and inner bottom plating.

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, outside, Plating, &c.?

FRAMES extend in one length from Centre line to margin plate and from margin plate to gunwale. REVERSED FRAMES on floors and frames extend from Centre line to margin plate, and from margin plate to main and lower decks alternately.

MASTS, SPARS, &c. Table with columns for Material, Total length, Diameter and Thickness (At Partners, Heel, Hounds, Head), No. of Plates in round, and Riveting details.

EQUIPMENT No. 11713.9 LETTER J TONNAGE FOR TRAWLERS U.Dk. ANCHORS.

Table with columns for Number of Certificate, Anchors, Weight, Ex Stock, Weight of Stock, Test, per Certificate, Weight Reg. by Rule, Description of Anchor, Makers, and Where and when tested and Superintendent.

CHAIN CABLES. HAWSERS AND WARPS. Table with columns for Number of Certificate, Fathoms, Size, Test per Certificate, Weight of Chain Cable, Fathoms and Size per Rule, Description, Makers of Cables, When and where tested, and Material.

Boats Four life boats Pumps, Number (4) one in fore peak and 3 in hold Windlass is Napier Bros patent Capstan Engine Room Skylights.—How constructed? Teak frame on iron casings What arrangements for deadlights in bad weather? Rods and canvas covers Coal Bunker Openings.—How constructed? Cast iron rims How are lids secured? With clutches Height above deck? Flush Number of Scuppers, and number and dimensions of Freeing Ports, &c. Four scuppers and four freeing ports 2' 6 1/2" x 2' 0" on each side Ceiling in Holds, thickness and material P. Pine 2 1/2" Ceiling 'tween Decks, thickness and material Cabin lining Cargo Hatchways.—How formed? Iron framed with teak body hatches Hatches.—If strong and efficient? Teak grating with tarpaulins State size No. 1 Hatch (Forward) 6' 0" x 5' 6" x 12" No. 2 Hatch 5' 6" x 9' 0" x 28" No. 3 Hatch 4' 6" x 5' 6" x 32" No. 4 Hatch Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch No. of Breasthooks 5 and 6 up from No. of Crutches 3 and 4 up from Bulwarks, height above deck and description Teak plates. 3' 10" Main Rail, material and size 8" x 2 1/2" Teak The above is a correct description. Builder's Signature R. Napier Surveyor's Signature Charles Edwards Surveyor to Lloyd's Register of British and Foreign Shipping

12775 *ges*
Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with the case) *12th July 1893 (M)*
26th July 1893 (M) 11th Augth 1893 (M) 21st Augth 1893 (M) 31st Augth 1893 (M) 16th Sep 1893 (M) 20th Sep 1893 (E) 9th Oct 1893 (E)

Workmanship. Are the butts of plating planed or otherwise fitted? *Planed*
Is the riveted work properly closed? *Yes*
Are the liners between the frames and plates solid single pieces? *Yes*
Do 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? *a few only*
Are the butts of Plating, Stringers, &c., properly shifted and strapped? *Yes*

General Remarks (State quality of workmanship, &c.) *Materials and Workmanship very good throughout. This is a steel screw steamer, built in accordance with the midship section forwarded to London on the 10th inst, the enclosed sketches and Secretary's letters of the above dates. She has a top gallant fore-castle Bridge House and short turtle back aft. This vessel is intended for the service of the London Missionary Society. The fore peak compartment was filled with water and proved satisfactory. Sluice valves, watertight doors, deck pumps & gutterways in good order. Freeboard assigned by the Committee*

The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *—* ft., R.Q.D. or Break *—* ft., Bridge Dk. *75.5* ft., F'castle *25.5* ft. (in feet and tenths) where the Poop is on top of the R.Q.D., or when the Poop or R.Q.D. is joined to the B.D., this should be distinctly stated *✓*

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) *Two decks (upper deck steel) Two tiers of beams.*
Official No. *—*; Signal Letters *—*
How are the surfaces preserved from oxidation? Inside *Cement and paint* Outside *Paint & Composition*

PARTICULARS OF WATER BALLAST.—State whether the Double Bottom is constructed on the cellular system *Yes.*

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	<i>27.6</i>	<i>17 F.W.</i>	Fore peak tank,		
Double bottom, forward,	<i>50.8</i>	<i>96</i>	After peak tank,	<i>20 lower deck</i>	<i>6 F.W.</i>
Double bottom, under Engines and Boilers,	<i>36.8</i>	<i>54</i>	Midship deep tank,	<i>✓</i>	
Double bottom, if under Engines only,			Other tanks, if fitted,	<i>✓</i>	
Double bottom, if under Boilers only,			(If necessary, furnish further information by sketch.)		

State whether the above have been tested as required by the Rules *Yes*

Order for Special Survey No. <i>2698</i>	1st. On the several parts of the frame, when in place, and before the plating was wrought	<i>1893.. Aug 11. 16. 23. 24. 28. 31. Sep 7. 13. 21. 27.</i>
Date <i>14th July 1893</i>	2nd. On the plating during the process of riveting	<i>Oct 5. 11. 14. 16. 18. 19. 20. 23. 25. 27. 31. Nov 2. 10. 13</i>
Order for Ordinary Survey No. <i>✓</i>	3rd. When the beams were in and fastened and before the decks were laid	<i>17. 22. 29. Dec 2. 6. 13. 19. 21. 29. 1894. Jan 10. 11. 26</i>
Date <i>✓</i>	4th. When the ship was complete, and before the plating was finally coated or cemented	<i>31. Feb 7. 14. 15. 19. 26. 28. Mar 5. 10. 12</i>
No. <i>437</i> in builder's yard	5th. After the ship was launched and equipped	
DATES of Surveys held while building as per Section 18.		Total No. of Visits <i>47</i>

The amount of Entry Fee£ *3* : " : " Fees applied for, *10/31 1894*
Special.....£ *30* : 1 : " Received by me, *12/31 1894*
Certificate* £ " : " : " * Certificate to be sent to *Glasgow*
Travelling Expenses, if any £ " : " : "

I am of opinion this Vessel should be Classed *100 A.1. steel* *Charles Edwards*
With, or without Freeboard, as condition of Class *Freeboard not a condition of class.* Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute *FRI 16 MAR 1894*
Character assigned *100A1 Steel*
2 a/cp + 2 m/c 3,94 *2 5/8 (H Teak)*
100A1 ("Steel")
2 5/8 (U-Teak)
N.B. = Cell D.B. 2nd (particulars)
pt Asp & pt Cane
Hull Certificate Written. *GLS169-0214 (212)*