

3 Decks.

IRON OR STEEL STEAMER.

No. 20217

10th SEP 1902

Date of completion of report 20th Sep '02 Port of Glasgow Received at London Office
Survey held at Glasgow Date, First Survey 20 March 1901 Last Survey 12 September 1902

On the Steel Iron Screw Steamer "ORONTES"

Rig Schooner

TONNAGE under Tonnage Deck 5444.48

THREE DECKED VESSEL.

Master J. F. Ruthven

Do. between Tonnage Dk. 1932.33

CLASS 100A Steel

Year of appointment (1) As Master in service of owner of present vessel - 1881 (2) As Master of this vessel - 1902

Total under Upper Dk. 7376.81

Do. of Poop 64.48

Do. of Bridge House 21.14

Do. of Forecastle 1081.34

Do. of Houses on Dk. 479.70

Do. of excess of Hatchways 479.70

Do. above Crown of Engine Room 479.70

Gross Tonnage 9023.47

Net Tonnage 502.49

Tonnage for Fees 8041.28

Do. Engine Room 3830.12

Do. Navigation Spaces 69.09

Register Tonnage 4621.77

as cut on Beam

Half Breadth (moulded) 29.0

Depth from upper part of Keel to top of Upper Deck Beams 39.4

Girth of Half Midship Frame (as per Rule) 62.3

deduct 7 feet 7.0

1st Number 123.7

Length 510.9

2nd Number 63.98

Proportions - Breadth to Length 8.8

Depth to Length - Upper Deck to top of Keel 12.9

Main Deck ditto 16.2

Destined Voyage London to Cadiz

Surveyed while Building, Afloat, & in Dry Dock

Length on Deck 510 Feet. 10 3/4 Inches. BREADTH - Moulded 58 Feet. 0 Inches. DEPTH top of Floors to Upper Deck Beams 39.4 Feet. 7 1/4 Inches. Power of Engines 10 Horse. No. of Decks with flat laid 3 No. of Tiers of Beams 4 Round up of Beam, Upper Dk. 9 ins.

FRAMING.						FORGINGS OR CASTINGS.					
NAME, Angles, or Bars for length	Inches in Ship	Inches in Ship	16ths or 20ths in Ship	Inches per Rule	Inches per Rule	NAME, Angles, or Bars for length	Inches in Ship	Inches in Ship	16ths or 20ths in Ship	Inches per Rule	Inches per Rule
Do. for 1/2 at each end	7 3/4	11	7 3/4	11	10	KEEL, Bar or Side Plates, depth and thickness	12 x 3 7/8	12 x 3 7/8	12 x 3 7/8	12 x 3 7/8	12 x 3 7/8
Do. in way of Double Bottoms at Solid Floors	7 3/4	11	7 3/4	11	10	STEM, moulding and thickness	13 x 12	13 x 12	13 x 12	13 x 12	13 x 12
Do. at intermdt. Bkts.	27	27	27	27	10	STERN-POST for Rudder do. do.	12	12	12	12	12
stance of Frames from moulding edge to moulding edge, all fore and aft	4 1/2	4	4 1/2	4	10	MAIN PIECE of Rudder, diameter at head	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
EVERSED FRAME, Angles	4 1/2	4	4 1/2	4	10	do. at heel	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
EEP FRAMING, depth of girder	52	9 1/8	52	9 1/8	10	RUDDER, how constructed	12	12	12	12	12
DOORS, depth and thickness of Floor Plate	52	9 1/8	52	9 1/8	10	Can the Rudder be unshipped afloat?	Yes	Yes	Yes	Yes	Yes
do. at mid-line for 1/2 length amidships	52	9 1/8	52	9 1/8	10	KEELSONS & STRINGERS.	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
do. in way of Engines and Boilers	52	9 1/8	52	9 1/8	10	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
do. thickness at the ends of vessel	52	9 1/8	52	9 1/8	10	Rider Plate	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
do. depth at 1/2 the half breadth, as per Rule	52	9 1/8	52	9 1/8	10	Bulb Plate to Intercoastal Keelson	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
do. height extended at the Bilges	52	9 1/8	52	9 1/8	10	Horizontal Plates on Floors	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
DOORS & BRACKETS in Cell Dble Bottoms	52	9 1/8	52	9 1/8	10	Angles	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
Distance apart	52	9 1/8	52	9 1/8	10	SIDE KEELSON, Angles	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
ENTRE GIRDER, in Double bottom, depth and thickness	52	9 1/8	52	9 1/8	10	Bulb or Plate above floors, for	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
Angles, Top	52	9 1/8	52	9 1/8	10	Intercoastal Plate, for	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
Angles, Bottom	52	9 1/8	52	9 1/8	10	Attached to outside Plating with Angle	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
DE GIRDERS, number and thickness	52	9 1/8	52	9 1/8	10	BILGE KEELSON, Angles	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
Angles	52	9 1/8	52	9 1/8	10	Bulb or Plate above floors, for	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
MARGIN PLATE, depth (exclusive of flange) and thickness	52	9 1/8	52	9 1/8	10	Intercoastal Plate for	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
Angles	52	9 1/8	52	9 1/8	10	Attached to outside Plating with Angle	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
NER BOTTOM PLATING, breadth and thickness of Middle Line Strake	52	9 1/8	52	9 1/8	10	BILGE STRINGER Angles	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
in Engine and Boiler space	52	9 1/8	52	9 1/8	10	Bulb Plate for	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
Remainder in Holds	52	9 1/8	52	9 1/8	10	Intercoastal Plate for	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
EAMS, Upper Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	10	6	10	6	11	Attached to outside Plating with Angle	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
Angles on upper edge	10	6	10	6	11	SIDE STRINGER Angles	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
Average space	10	6	10	6	11	Bulb or Intercoastal Plate, for	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
EAMS, Middle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	10	6	10	6	11	Attached to outside plating with Angle	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2	26 x 4 1/2
Angles on upper edge	10	6	10	6	11	Upper Deck Stringer Plates, br'dth & thickness	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
Average space	10	6	10	6	11	Angle on ditto	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
EAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	10	6	10	6	11	Tie Plates fore and aft, outside Hatchways	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
Angles on upper edge	10	6	10	6	11	Deck, Iron or Steel, for	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
Average space	10	6	10	6	11	Wood Deck. Material & thickness	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
EAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	10	6	10	6	11	Middle Deck Stringer Plate, br'dth & thickness	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
Angles on upper edge	10	6	10	6	11	Angles on ditto, No. 2	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
Average space	10	6	10	6	11	Tie Plates outside Hatchways	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
EAMS, Hold, or Orlop, Plate or Tee Bulb	10	6	10	6	11	Diagonal Tie Plates on Bms, No. of pps	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
Angles on upper edge	10	6	10	6	11	Deck, Iron or Steel, for	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
Average space	10	6	10	6	11	Wood Deck. Material & thickness	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
EAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	9	5 1/2	9	5 1/2	10	Lower Deck Stringer Plate, br'dth & thickness	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
Angles on upper edge	9	5 1/2	9	5 1/2	10	Angles on ditto, No. 2	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
Average space	9	5 1/2	9	5 1/2	10	Tie Plates, outside Hatchways	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
EAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	9	5 1/2	9	5 1/2	10	Deck, Material and thickness	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
Angles on upper edge	9	5 1/2	9	5 1/2	10	Hold, or Orlop Stringer Plate, br'dth & thickness	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
Average space	9	5 1/2	9	5 1/2	10	Angles on ditto, No. 2	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
EAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	9	5 1/2	9	5 1/2	10	Tie Plates outside Hatchways	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
Angles on upper edge	9	5 1/2	9	5 1/2	10	Deck, Material and thickness	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
Average space	9	5 1/2	9	5 1/2	10	Bridge Deck Stringer Plate, br'dth & thickness	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
PILLARS, In 'tween Deck, size and spacing	3 1/2	3 1/2	3 1/2	3 1/2	5 1/2	Angle on ditto	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
Hold	3 1/2	3 1/2	3 1/2	3 1/2	5 1/2	Tie Plates	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
Quarter 'tween Dks.	3 1/2	3 1/2	3 1/2	3 1/2	5 1/2	Deck, Material and thickness	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
in Hold	3 1/2	3 1/2	3 1/2	3 1/2	5 1/2	Forecastle Deck Stringer Plate, br'dth & thickness	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
WEB FRAMES, In Fore Body, No. and spacing	3 1/2	3 1/2	3 1/2	3 1/2	5 1/2	Angle on ditto	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
br'dth & thickness	3 1/2	3 1/2	3 1/2	3 1/2	5 1/2	Tie Plates	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
No. of Side Stringers	3 1/2	3 1/2	3 1/2	3 1/2	5 1/2	Deck, Material and thickness	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
WEB FRAMES, In E. & B. Space, No. and spacing	3 1/2	3 1/2	3 1/2	3 1/2	5 1/2	Bridge Deck Stringer Plate, br'dth & thickness	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
br'dth & thickness	3 1/2	3 1/2	3 1/2	3 1/2	5 1/2	Angle on ditto	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
WEB FRAMES, In After Body, No. and spacing	3 1/2	3 1/2	3 1/2	3 1/2	5 1/2	Tie Plates	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
br'dth & thickness	3 1/2	3 1/2	3 1/2	3 1/2	5 1/2	Deck, Material and thickness	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
No. of Side Stringers	3 1/2	3 1/2	3 1/2	3 1/2	5 1/2	Forecastle Deck Stringer Plate, br'dth & thickness	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
Size of Angles or Tee Bars to Web-Frames	3 1/2	3 1/2	3 1/2	3 1/2	5 1/2	Angle on ditto	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
BRACKET PLATES to Stringers between Web-Frames	3 1/2	3 1/2	3 1/2	3 1/2	5 1/2	Tie Plates	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16
Web-Frames, depth and thickness	3 1/2	3 1/2	3 1/2	3 1/2	5 1/2	Deck, Material and thickness	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16	78 x 13 x 5/16

RIVETING.

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, Plating, &c. ? Colville, Sh. Co. of Scotland, Consell
Grosvenor, S. Durham, of Lamparwick, Lancashire
Glasgow I.R. Co., Palmers Co.

Upper Deck { **Butts**, treble riveted for full length amidship.
Stringer Plate { **Straps**, single, double or overlapped for 3/4 length amidship.
Middle Deck { **Butts**, treble riveted for full length amidship.
Stringer Plate { **Straps**, single, double or overlapped for full length amidship.
Butts of Bilge & Side Stringers and Tie Plates, treble or double riveted ?
Inner Bottom Plating, riveting of Edges like **Butts** like
Centre Girder Butts, treble riveted **Keelson Butts**, treble riveted.
Frames, riveted through Plates with 1 in. Rivets, about 7 apart.
Rivets, state whether Iron or Steel like

MASTS SPARS &c

EQUIPMENT No. 74306. LETTER ft. ANCHORS.

CHAIN CABLES.

HAWSERS AND WARPS.

Form No. 1B.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case) 1901:—Mar. 2 M, 4 M, Apr 3 M, 10 M, 26 M, June 22 M, 26 M, July 6 M, 8 E, Aug 24 M, Sep 3 M, 21 E. 1902:—Aug 12 M

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 plating? a few only
Are the butts of Plating, Stringers, &c., properly shifted and strapped? Yes

General Remarks (State quality of workmanship, &c.) The workmanship is good and the vessel has been built in accordance with the approved plans and in general conformity with Rules for the class contemplated. The upper and weather deck & the hulls have been tested with water from a hose and found tight. The peaks have been filled with water to height of lead line & bulkheads found tight. The pumps & watertight doors have been tried & found efficient.

This vessel is fitted with the electric light, and is insulated in R? 213
eds.

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

CULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 74 ft., R.Q.D. or Break — ft., Bridge Dk. 267 ft., F'castle 74 ft. (tenths). When the Poop is joined to the B.D., this should be distinctly stated —

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 appear in the Register Book) 3 SKs (Stl - 2 n.s., 4 oak S)
No. 115-707; Signal Letters — and 4 rails some Bitumastic Solution.
Are the surfaces preserved from oxidation? Inside Portland Cement Paint Outside Paint

CULARS 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.	
Bottom, aft,	<u>45</u>	<u>96</u>	Fore peak tank,		<u>—</u>	<u>74</u>	
Bottom, forward,	<u>169</u>	<u>417</u>	After peak tank,		<u>—</u>	<u>150</u>	
Bottom, under Engines and Boilers,	<u>167</u>	<u>790</u>	Midship deep tank,				
Bottom, if under Engines only,			Other tanks, if fitted,				
Bottom, if under Boilers only,			(If necessary, furnish further information by sketch.)	<u>See plan, plan</u>			

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

Special Survey No. <u>3461</u> <u>13/3/01</u>	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	<u>1901: Mar. 20. 29. Apr. 23. 29. May. 3. 9. 13. 14. 17. 22. 24. 27.</u>
Ordinary Survey No. <u>—</u>		2nd. On the plating during the process of riveting	<u>30. Jun. 6. 12. 18. 19. 24. 27. Jul. 1. 4. 9. 25. 29. Aug. 2. 6. 13. 20. 22. 28.</u>
<u>—</u> in builder's yard.		3rd. When the beams were in and fastened, and before the decks were laid	<u>Sep. 3. 9. 16. 24. 26. Oct. 2. 10. 15. 18. 23. 25. 29. Nov. 6. 14. 21. 27. 29. Dec. 5.</u>
		4th. When the ship was complete, and before the plating was finally coated or cemented	<u>6. 11. 13. 17. 20. 26. 1902: Jan. 9. 13. 22. Feb. 5. 13. 18. 26. Mar. 5. 12. 19.</u>
		5th. After the ship was launched and equipped	<u>27. 28. Apr. 2. 8. 11. 15. 17. 24. 26. 28. May. 3. 8. 9. Total No. of Visits <u>103</u></u>

Amount of Entry Fee.....£ 5 : : Fees applied for, 17/9/1902
Special Survey Fee ...£ 226 : : Received by me, 22/9/1902
Working Expenses, if any £ : : AK do.
In this Vessel should be Classed 100A.1. Steel
Without Freeboard, as condition of Class
Certificate to be sent to Glasgow
Ebb Humphress.
Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute Glasgow. 22 SEP. 1902
Inspector assigned 100 A1 (Steel) Lloyd's A.R.P.
then repaired