

With or Without Disconnected Erections.

STEEL STEAMER.

Received at London Office

WED. MAR. 12. 1913

Date of completion of report

Survey held at

On the

TONNAGE under

Tonnage Deck

Do. between Tonnage Dk.

and 3rd and 4th Dk.

Total under Upper Dk.

Do. of Poop

Do. of R.Q.Dk.

Do. of Bridge House

Do. of Forecastle

Do. of Houses on Dk.

Do. of excess of Hatchways

Do. above Crown of

Engine Room

Gross Tonnage

Less Crew Space

Less above Crown of

Engine Room

TONNAGE FOR FEES

Less Engine Room

Less Navigation Spaces

Register Tonnage

as cut on Beam

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

Port of

Date, First Survey

Greenock

12th Jan'y 1912

Last Survey

Rig

Schooner

No. 16402

6th March 1913

SS. "BENALLA."

CLASS F100A1

FEET.

Master

Symonds

Year of appointment

1913

Built at

Greenock

When built

1913

By whom built

W. & A. R. 88th St.

Owners

W. & A. R. 88th St.

Managers

D. S.

Residence

Port belonging to

Greenock

Breadth (greatest moulded)

Depth, at middle of length from top of keel to top of

upper deck beams at side

Transverse Number

Length on deck from fore part of stem to after part of

stern post

Longitudinal Number

Depth "d," at middle of length (See Secs. 2 & 18)

Proportions—Depths to Length—Upper Deck Beam at

side to top of keel

" " Long Bridge Deck

Beam at side to top of keel

" " " "

Destined Voyage

If Surveyed while Building, Afloat, or in Dry Dock

| LENGTH on Deck | Feet. | Inches. | BREADTH— | Feet. | Inches. | DEPTH, ACTUAL— | Feet. | Inches. | No. of Decks with flat laid |
|----------------|-------|---------|----------|-------|---------|---|-------|---------|-----------------------------|
| as per Rule | 500 | 0 | Moulded | 62 | 0 | Top of Floors to top of Upper Dk. Beams | 34 | 11 | 12 |
| | | | | | | Second Dk. Beams | 34 | 11 | |

| | | | | | | | | | | | | |
|---|-------|---------|-------|-------|-------|--------------------|----|------|---|---------------|------------------|------|
| Dimensions of Ship per Register, Length | 500.1 | breadth | 62.25 | depth | 34.85 | Moulded depth, ft. | 49 | ins. | 0 | To Bridge Dk. | Round of Upper | ins. |
| | | | | | | Moulded depth, ft. | 41 | ins. | 0 | To Upper Dk. | Dk. Beam, Actual | 12 |

| FRAMING. | | | | PILLARS. | | | |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Inches in Ship | Inches in Ship | Inches in Ship | Inches in Ship | Inches in Ship | Inches in Ship | Inches in Ship | Inches in Ship |
| BRIDGE TWOS—ALTERNATELY IN MAIN TWOS | 4 | 3 | 4 | 4 | 3 | 4 | 4 |
| FRAME, Angles, or Bars amidships | 11 | 3 | 5 | 11 | 3 | 5 | 5 |
| Do. in peaks | 4 | 3 | 4 | 4 | 3 | 4 | 4 |
| Do. in way of Double Bottoms at Solid Floors | 3 | 3 | 5 | 3 | 3 | 5 | 5 |
| " " at intermdt. Bkts. | | | | | | | |
| Spacing of Frames from centre to centre amidships | 30 | | 30 | | | | |
| " " length to Collision bulkhead in peaks | 24 | | 24 | | | | |
| " " BETWEEN PEAKS | 3 | 3 | 5 | 3 | 3 | 5 | 5 |
| REVERSED FRAME, Angles | 4 | 3 | 4 | 4 | 3 | 4 | 4 |
| Do. in way of Double Bottoms at Solid Floors | 3 | 3 | 5 | 3 | 3 | 5 | 5 |
| " " at intermdt. Bkts. | | | | | | | |
| FRAMING, depth of girder | 11 | | 11 | | | | |
| FLOORS, depth and thickness of Floor Plate at mid-line for length amidships | 4 | | 4 | | | | |
| " in way of Engine and Boiler Spaces | 4 | | 4 | | | | |
| " thickness at the ends of vessel | 4 | | 4 | | | | |
| " depth at 1/2 the half breadth, as per Rule | 4 | | 4 | | | | |
| " height extended at the Bilges | 4 | | 4 | | | | |
| FLOORS & BRACKETS in Cell Dble Bottoms | 4 | | 4 | | | | |
| " state if flanged (top & bottom) | | | | | | | |
| " Spacing | 30 | | 30 | | | | |
| CENTRE GIRDER, in Dbl. bottom, dpth. & thckns. | 4 | | 4 | | | | |
| " Angles, Top | 3 | 3 | 5 | 3 | 3 | 5 | 5 |
| " Bottom | 5 | 5 | 6 | 5 | 5 | 6 | 6 |
| " to Floors | 5 | 5 | 4 | 5 | 5 | 4 | 4 |
| SIDE GIRDERS, number on each side & thickness | 2 | | 2 | | | | |
| " state if flanged (top and bottom) | | | | | | | |
| " Angles (top and bottom) | 3 | 3 | 5 | 3 | 3 | 5 | 5 |
| " to Floors | 3 | 3 | 4 | 3 | 3 | 4 | 4 |
| MARGIN PLATE, depth (exclusive of flange) and thickness | 4 | | 4 | | | | |
| " Angles to Outside Plating | 4 | 4 | 5 | 4 | 4 | 5 | 5 |
| " Floors | 3 | 3 | 5 | 3 | 3 | 5 | 5 |
| " Height of Brackets above at bilge | 80 | | 80 | | | | |
| INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake | 4 | | 4 | | | | |
| " in Engine and Boiler space | 5 | 5 | 6 | 5 | 5 | 6 | 6 |
| " Remainder in Holds | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| BEAMS, Upper Deck, Single Angle, Bulb, Angle, Plate, Tee Bulb, or Channel | 8 | 3 | 3 | 8 | 3 | 3 | 8 |
| " Angles on upper edge | 8 | 3 | 3 | 8 | 3 | 3 | 8 |
| " In way of Long Bridge | 8 | 3 | 3 | 8 | 3 | 3 | 8 |
| " Spacing | 30 | | 30 | | | | |
| BEAMS, Second Deck, Single Angle, Bulb, Angle, Plate, Tee Bulb, or Channel | 8 | 3 | 3 | 8 | 3 | 3 | 8 |
| " Angles on upper edge | 8 | 3 | 3 | 8 | 3 | 3 | 8 |
| " Spacing | 30 | | 30 | | | | |
| BEAMS, Third and Fourth Deck, Single Angle, Bulb, Angle, Plate, Tee Bulb, or Channel | 9 | 3 | 3 | 9 | 3 | 3 | 9 |
| " Angles on upper edge | 9 | 3 | 3 | 9 | 3 | 3 | 9 |
| " Spacing | 30 | | 30 | | | | |
| BEAMS, Poop Deck, Angle, Bulb, Angle, Plate, Tee Bulb, or Channel | 4 | 3 | 3 | 4 | 3 | 3 | 4 |
| " Angles on upper edge | 4 | 3 | 3 | 4 | 3 | 3 | 4 |
| " Spacing | 24 | | 24 | | | | |
| BEAMS, Bridge Deck, Angle, Bulb, Angle, Plate, Tee Bulb, or Channel | 8 | 3 | 3 | 8 | 3 | 3 | 8 |
| " Angles on upper edge | 8 | 3 | 3 | 8 | 3 | 3 | 8 |
| " Spacing | 30 | | 30 | | | | |
| BEAMS, Forecastle Deck, Angle, Bulb, Angle, Plate, Tee Bulb, or Channel | 8 | 3 | 3 | 8 | 3 | 3 | 8 |
| " Angles on upper edge | 8 | 3 | 3 | 8 | 3 | 3 | 8 |
| " Spacing | 24 | | 24 | | | | |

* If Iron or Steel Deck, state if whole or part, and if Wood Deck is laid thereon.

[illegible]

| EQUIPMENT No. 54513 | | | | LETTER F7 | | | | ANCHORS. | | | | Tonnage U.D.K. OR PLATING No. FOR TRAWLERS | | | | |
|------------------------|-------------------|-------------------|------|-----------|------------------|------|------|------------------------|-------|------|------------------------------|--|------|------------------------|---------------|---|
| Number of Certificate. | Anchors. | WEIGHT, EX STOCK. | | | WEIGHT OF STOCK. | | | TEST, PER CERTIFICATE. | | | WEIGHT REQUIRED BY TABLE 31. | | | Description of Anchor. | Makers. | Where and when tested and Superintendent. |
| | | Cwts. | qrs. | lbs. | Cwts. | qrs. | lbs. | Tons. | cwts. | qrs. | lbs. | Cwts. | qrs. | | | |
| 68474 | 1st Bower ... | 91 | 0 | 12 | | | | 0 | 0 | 0 | 90 | 0 | 0 | Halle Cast Steel | Kingley & Co. | Bethelton 23/1/12 |
| 68486 | 2nd " ... | 80 | 2 | 22 | | | | 12 | 2 | 0 | 80 | 0 | 0 | " | " | " |
| 68485 | 3rd " ... | 44 | 5 | 7 | | | | 12 | 2 | 0 | 44 | 2 | 0 | " | " | " |
| | 4th " ... | | | | | | | | | | | | | " | " | " |
| | Collective weight | 250 | 2 | 13 | | | | | | | 250 | 2 | 0 | | | |
| 68519 | Stream | 36 | 3 | 5 | 6 | 3 | 4 | 26 | 5 | 2 | 14 | 26 | 2 | Ordinary | | Bethelton 23/1/12 |
| 68476 | Kedge..... | 13 | 1 | 12 | 3 | 1 | 10 | 15 | 1 | 2 | 7 | 13 | 0 | Ordinary | | " 23/1/12 |

| CHAIN CABLES. | | | | | | | | | | HAWSEERS AND WARPS. | | | | | | | | | |
|------------------------|---------------------------|-----------------------|------------------------|-----------|----------|-------------------------------|--------------|-------------------|--|---------------------|---------------------------|--------------------------------------|-------------------------------|---------------------------|--------------------------------------|-------------------------------|---------|----------|---------|
| Number of Certificate. | Length and size supplied. | Test per Certificate. | WEIGHT OF CHAIN CABLE. | | | Length and Size per Table 31. | Description. | Makers of Cables. | Where and when tested, and Superintendent. | Material. | Length and Size supplied. | Breaking Test of Steel Wire Towline. | Length and Size per Table 31. | Length and Size supplied. | Breaking Test of Steel Wire Towline. | Length and Size per Table 31. | | | |
| | | | Supplied. | Per Rule. | Fathoms. | | | | | | | | | | | | Inches. | Fathoms. | Inches. |
| 50164 | 165' 2 1/2" | ✓ | 105 | 8 | 50 | 330 | STUD | Kingley & Co. | Bethelton 23/1/12 | TOWLINE | 120' | 5 1/2" | 41' | 180' | 5 1/2" | | | | |
| 50166 | 165' 2 1/2" | ✓ | 105 | 8 | 50 | 330 | STUD | Kingley & Co. | Bethelton 23/1/12 | HAWSEER | 100' | 5 1/2" | 26' | 200' | 5 1/2" | | | | |
| | 130' | ✓ | 105 | 8 | 50 | 330 | STUD | Kingley & Co. | Bethelton 23/1/12 | " | 100' | 5 1/2" | 26' | 200' | 5 1/2" | | | | |
| | 130' | ✓ | 105 | 8 | 50 | 330 | STUD | Kingley & Co. | Bethelton 23/1/12 | " | 100' | 5 1/2" | 26' | 200' | 5 1/2" | | | | |

Boats Steering Gear, Steam Compound Steering Gear, Hand Brownian
Pumps, Number Two Hand Pumps Diameter of Barrel 6 State whether they are in efficient working order Yes
Windlass is Steam by Clockwork 700 lbs. Capstans 4
Engine Room Skylights. How constructed? Slit plate 8 angle What arrangements for deadlights in bad weather? Bulbs up light
Coal Bunker Openings. How constructed? Side Scuttles How are lids secured? Bolt 5 inch Height above deck?
Number of Scuppers, and numbers and dimensions of **Freeing Ports,** &c. Length scuppers each side and down ports each side 5' x 1'-9"
Ceiling in Holds, thickness and material 3/4" P.I. iron and helix 8" w. lumber **Cargo Battens,** thickness and material 6" x 2" W.P.
Cargo Hatchways. How formed? Slit plate and angle **Hatches,** If strong and efficient? Yes Solid
State size **No. 1 Hatch** (Forward) 18'0" x 18'0" x 24" **No. 2 Hatch** 12'6" x 18'0" x 36" **No. 3 Hatch** 24'6" x 18'0" x 36" **No. 4 Hatch** 12'6" x 18'0" x 36"
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch N° 1 - 5 webs, N° 2 - 6 webs, N° 3 & 4 - 5 webs
No. of Breasthooks 7mm **No. of Crutches** Deep 7 ft.
Bulwarks, height above deck and description Slit 53" x 3 1/2" x 4 spaced 6" deep Main Rail, material and size 4" x 3 1/2" x 5
The foregoing is a correct description.
Builder's Signature (there only) FOR CAIRD AND COMPANY LIMITED Surveyor's Signature J. James Craig
Surveyor to Lloyd's Register of British and Foreign Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made in any correspondence connected with the case) M. 24/6/10. 18/4/10.
F.S.N. 12-22. 26/4/10. 23/10/10. 13-24/12/10. 3-7-19-23 31/1/11. 4-8-13/11. 30/3/11. 5/10/11. 23/12/11. 23/1/12
Workmanship. Are the butts of plating planed or otherwise fitted? Planed where practicable
Is the riveted work properly closed? Yes
Are the liners between the frames and plates solid single pieces? Yes, where frame not stiff
to plate, &c., conform well to each other? Yes Are the rivet holes well and sufficiently countersunk in the plate and punched from the facing surfaces? Yes Do any rivets break into or through the seams or butts of the plating? Yes a few
Are the butts of Plating, Stringers, &c., properly shifted and strapped? Yes
Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? Yes State results of tests good
Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? Yes State results of tests good

General Remarks (State quality of workmanship, &c.) The Vessel has been built in accordance with the Rules and approved Plans forwarded herewith along with a copy of sketch of midship section. The materials and workmanship are of good quality. Your foregoing reports are attached hereto also lists for cost sheet steam part & shaft brackets.

Refueled Ltd Capacity 204 000 CF
Stairroom 8500 CF

This is a sister vessel to the H.M. Ballarat & Bellona Gravel First Landing Report
of 16138 & 16229 respectively.

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

The amount of Entry Fee £ 5 : :
Special Survey Fee.... £ 284 : 5 : 4
Travelling Expenses, if any £ : :
State whether the Vessel has been built under Special Survey Yes
I am of opinion this Vessel should be Classed 7100 A1 8 HEADS 78 HEADS TO UPPER DECK 1 HEAD TO SECOND DECK
With or without Freeboard, as condition of Class
Committee's Minute GLASGOW 11 MAR 1913
Character assigned 7-100 A1
3, 13
Lloyd's at CP
+ L.M.C. 2, 13 subject etc
WED. MAR. 26 1913
as now
without spl and

GENERAL REMARKS—(continued).

Rpt. 4.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 21.0 ft., R.Q.D. ✓ ft., Bridge 205.0 ft., Forecastle 82.0 ft. (in feet and tenths). When the Poop 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) 3 DECKS (STEEL) UDS. DECK SHEATHED.

Official No. 135322; Signal Letters

State if Machinery is fitted aft No.

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

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors Cellular System

| Where Fitted. | *Length. Feet. | Water Capacity. Tons. | Where Fitted. | *Length. Feet. | Water Capacity. Tons. |
|---|-------------------|--------------------------|--|-------------------|--------------------------|
| Double bottom, aft, | <u>134-6</u> | <u>514</u> | Fore peak tank, | | <u>115</u> |
| Double bottom, under Engines and Boilers, | <u>✓</u> | <u>✓</u> | After peak tank, | | <u>143</u> |
| Double bottom, if under Engines only, | <u>✓</u> | <u>✓</u> | Deep tank, aft, | | <u>✓</u> |
| Double bottom, if under Boilers only, | <u>✓</u> | <u>✓</u> | Deep tank, forward, | | <u>✓</u> |
| Double bottom, forward, | <u>184-9</u> | <u>731</u> | Other tanks, if fitted, | | <u>✓</u> |
| Total capacity of double bottom | <u>124-8</u> | | (If necessary, furnish further information by sketch.) | | |

* The wells are not to be included in the lengths of the tanks.

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

Order for Special Survey No. 2672

Date 4th Dec. 1911

No. 322 in builder's yard.

DATES OF SURVEYS held while building

1912. Jan'y 12-24-26-31. Feb'y 7-9-12-27. Mar' 5-11-18-27-28. April 2-11-20-25. May 6-10-15-23-27. June 6-14-18-24-28. July 19-23. Aug' 1-7-16-19-21-23-27-30. Sept 2-5-14-16-27. Oct' 2-4-10-17-22-24. Nov' 1-7-14-20-29. Dec' 4-11-16-23-27. 1913. Jan 9-15. Feb'y 6-13-18-25. March 6.

Total No. of Visits 65

Surveyor's Signature

J. Angus Craig

Lloyd's Register Foundation