

3 Decks.

## IRON OR STEEL STEAMER.

JULY FEB 19 1907

Received at London Office.

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

Yes

Date of completion of report 16<sup>th</sup> February 1907 Port of Glasgow No. 24893  
Survey held at Dumbarton Date, First Survey 4<sup>th</sup> July 06 Last Survey 8<sup>th</sup> February 1907  
On the S. S. "Culina" Rig 2 masted S. & A. Schooner

TONNAGE under 5817.10  
Tonnage Deck...  
Do. between Tonnage Dk. and 3rd and 4th Dk.  
Total under Upper Dk. 5817.10  
Do. of Poop 107.45  
Do. of Bridge House 144.75  
Do. of Forecastle Houses 21.03  
Do. of Houses on Dk. 23.20  
Do. of excess of Hatchways 28.98  
Do. above Crown of Engine Room...  
Gross Tonnage 6142.50  
Less Crew Space 169.29  
Less above Crown of Engine Room...  
TONNAGE FOR FEES.. 5973.21  
Less Engine Room 1965.60  
Less Navigation Spaces 44.26  
Register Tonnage 3963.35  
as cut on Beam...

THREE DECKED VESSEL.  
CLASS 100 A 1.

FEET.

Half Breadth (moulded) 27.000  
Depth from upper part of Keel to top of Upper Deck Beams 35.958  
(with the normal round up of beam)  
Girth of Half Midship Frame (as per Rule) 58.915  
deduct 7 feet 7.  
114.873  
1st Number 114.873  
Length on deck from after part of stem to fore part of stern post 427.96  
2nd Number 49160.  
Proportions—Breadth to Length 7.92  
Depth to Length—Upper Deck to top of Keel 11.90  
Main Deck ditto 15.32  
Destined Voyage London

Master Stewart MacLachlan

Year of appointment (1) As Master in service of owner of present vessel: 1907  
(2) As Master of this vessel: 1907

Built at Dumbarton

When built 1907 Launched 27<sup>th</sup> Decr/06

By whom built Mr. Denny &amp; Co.

Owners British India Steam Navigation Co. Ltd.

Managers

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

Residence London

Port belonging to Glasgow.

and

If Surveyed while Building, Afloat, or in Dry Dock.

LENGTH on Deck as per Rule 427 Feet. 11/2 Inches. BREADTH—Moulded 54 Feet. 11/2 Inches. DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams 32 Feet. 0 1/2 Inches. No. of Decks with flat laid 2  
Do. do. do. do. Main Dk. Beams 23 Feet. 6 1/2 Inches. No. of Tiers of Beams 3  
Dimensions of Ship per Register, Length 430.5 breadth 54.2 depth 31.9. Moulded depth, ft. 34 ins. 10 To Upper Dk. Round of Upper Dk. Beam, Actual 12 3/4 ins.

FRAMING.				FORGINGS or CASTINGS.				KEELSONS & STRINGERS.			
Inches in Ship				Inches in Ship				Inches in Ship			
FRAME, Angles or L or E Bars for 2/3 length amidships				KEEL, Bar or Side Plates, depth and thickness				CENTRE LINE KEELSON, Vertical Plates above floors, Through Plate, or Intercoastal Plate			
Do. for 1/2 at each end				STEM, moulding and thickness				Rider Plate			
Do. in way of Double Bottoms at Solid Floors				STERN-POST for Rudder do. do.				Bulb Plate to Intercoastal Keelson			
at intermdt. Bkts.				for Propeller				Horizontal Plates on Floors			
Distance of Frames from moulding edge to moulding edge, all fore and aft				MAIN PIECE of Rudder, diameter at head				Angles			
REVERSED FRAME, Angles				do. at heel				SIDE KEELSON, Angles			
DEEP FRAMING, depth of girder				RUDDER, how constructed				Bulb or Plate above floors, for lng.			
FLOORS, depth and thickness of Floor Plate at mid-line for 2/3 length amidships				Can the Rudder be unshipped afloat?				Intercoastal Plate, for length			
in way of Engines and Boilers				Yes.				Attached to outside Plating with Angle			
thickness at the ends of vessel				BILGE KEELSON, Angles				Bulb or Plate above floors, for lng.			
depth at 1/2 the half breadth, as per Rule				Bulb or Plate above floors, for lng.				Intercoastal Plate for length			
height extended at the Bilges				Attached to outside Plating with Angle				BILGE STRINGER Angles			
FLOORS & BRACKETS in Cell Dble Bottoms				Bulb Plate for length				Bulb or Plate above floors, for lng.			
Distance apart				Intercoastal Plate for required length				Intercoastal Plate for length			
CENTRE GIRDER, in Double bottom, depth and thickness				Attached to outside Plating with Angle				BILGE STRINGER Angles			
Angles, Top				Bulb or Plate above floors, for lng.				Bulb or Plate above floors, for lng.			
Bottom				Intercoastal Plate for length				Intercoastal Plate for length			
SIDE GIRDERS, number on each side & thickness				Attached to outside Plating with Angle				BILGE STRINGER Angles			
Angles				Bulb or Plate above floors, for lng.				Bulb or Plate above floors, for lng.			
MARGIN PLATE, depth (exclusive of flange) and thickness				Intercoastal Plate for length				Intercoastal Plate for length			
Angles to Outside Plating				Attached to outside Plating with Angle				BILGE STRINGER Angles			
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake				Bulb or Plate above floors, for lng.				Bulb or Plate above floors, for lng.			
in Engine and Boiler space				Intercoastal Plate for length				Intercoastal Plate for length			
Remainder in Holds				Attached to outside Plating with Angle				BILGE STRINGER Angles			
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate or Tee Bulb				Bulb or Plate above floors, for lng.				Bulb or Plate above floors, for lng.			
Angles on upper edge				Intercoastal Plate for length				Intercoastal Plate for length			
Average space				Attached to outside Plating with Angle				BILGE STRINGER Angles			
BEAMS, Middle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb				Bulb or Plate above floors, for lng.				Bulb or Plate above floors, for lng.			
Angles on upper edge				Intercoastal Plate for length				Intercoastal Plate for length			
Average space				Attached to outside Plating with Angle				BILGE STRINGER Angles			
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb				Bulb or Plate above floors, for lng.				Bulb or Plate above floors, for lng.			
Angles on upper edge				Intercoastal Plate for length				Intercoastal Plate for length			
Average space				Attached to outside Plating with Angle				BILGE STRINGER Angles			
BEAMS, Hold, or Orlop, Plate or Tee Bulb				Bulb or Plate above floors, for lng.				Bulb or Plate above floors, for lng.			
Angles on upper edge				Intercoastal Plate for length				Intercoastal Plate for length			
Average space				Attached to outside Plating with Angle				BILGE STRINGER Angles			
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb				Bulb or Plate above floors, for lng.				Bulb or Plate above floors, for lng.			
Angles on upper edge				Intercoastal Plate for length				Intercoastal Plate for length			
Average space				Attached to outside Plating with Angle				BILGE STRINGER Angles			
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb				Bulb or Plate above floors, for lng.				Bulb or Plate above floors, for lng.			
Angles on upper edge				Intercoastal Plate for length				Intercoastal Plate for length			
Average space				Attached to outside Plating with Angle				BILGE STRINGER Angles			
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb				Bulb or Plate above floors, for lng.				Bulb or Plate above floors, for lng.			
Angles on upper edge				Intercoastal Plate for length				Intercoastal Plate for length			
Average space				Attached to outside Plating with Angle				BILGE STRINGER Angles			
PILLARS, In 'tween Deck, size and spacing				Bulb or Plate above floors, for lng.				Bulb or Plate above floors, for lng.			
Hold				Intercoastal Plate for length				Intercoastal Plate for length			
Quarter 'tween Dks.,				Attached to outside Plating with Angle				BILGE STRINGER Angles			
in Hold				Bulb or Plate above floors, for lng.				Bulb or Plate above floors, for lng.			
WEB-FRAMES, In Fore Body, No. and spacing				Intercoastal Plate for length				Intercoastal Plate for length			
brdth. & thickness				Attached to outside Plating with Angle				BILGE STRINGER Angles			
No. of Side Stringers				Bulb or Plate above floors, for lng.				Bulb or Plate above floors, for lng.			
WEB-FRAMES, In E. & B. Space, No. & spacing				Intercoastal Plate for length				Intercoastal Plate for length			
brdth. & thickness				Attached to outside Plating with Angle				BILGE STRINGER Angles			
No. of Side Stringers				Bulb or Plate above floors, for lng.				Bulb or Plate above floors, for lng.			
WEB-FRAMES, In After Body, No. and spacing				Intercoastal Plate for length				Intercoastal Plate for length			
brdth. & thickness				Attached to outside Plating with Angle				BILGE STRINGER Angles			
No. of Side Stringers				Bulb or Plate above floors, for lng.				Bulb or Plate above floors, for lng.			
Size of Angles or Tee Bars to Web-Frames				Intercoastal Plate for length				Intercoastal Plate for length			
BRACKET PLATES to Stringers between Web Frames, depth and thickness				Attached to outside Plating with Angle				BILGE STRINGER Angles			



PLATING.										RIVETING.										
AS IN SHIP.					PER RULE OR AS APPROVED.					EDGES.					BUTTS.					
STRAKES.																				
FLAT PLATE KEEL	36	22	15	15	36	22	15	15	36	22	15	15	36	22	15	15	36	22	15	15
GARBOARD OF A Strake	17	14	14	14	17	14	14	14	17	14	14	14	17	14	14	14	17	14	14	14
B "	13	11	11	11	13	11	11	11	13	11	11	11	13	11	11	11	13	11	11	11
C "	12	10	10	10	12	10	10	10	12	10	10	10	12	10	10	10	12	10	10	10
D "	13	11	11	11	13	11	11	11	13	11	11	11	13	11	11	11	13	11	11	11
E "	13	10	10	10	13	10	10	10	13	10	10	10	13	10	10	10	13	10	10	10
F "	14	11	11	11	14	11	11	11	14	11	11	11	14	11	11	11	14	11	11	11
G "	13	10	10	10	13	10	10	10	13	10	10	10	13	10	10	10	13	10	10	10
H "	14	11	11	11	14	11	11	11	14	11	11	11	14	11	11	11	14	11	11	11
J "	13	10	10	10	13	10	10	10	13	10	10	10	13	10	10	10	13	10	10	10
K "	14	11	11	11	14	11	11	11	14	11	11	11	14	11	11	11	14	11	11	11
L "	13	10	10	10	13	10	10	10	13	10	10	10	13	10	10	10	13	10	10	10
M "	14	11	11	11	14	11	11	11	14	11	11	11	14	11	11	11	14	11	11	11
N "	15	10	10	10	15	10	10	10	15	10	10	10	15	10	10	10	15	10	10	10
Sheerstrake	46	17	12	12	46	17	12	12	46	17	12	12	46	17	12	12	46	17	12	12
P "																				
Q "																				
R "																				
DOUBLING OF PLATE KEEL																				
Length and thickness of Sheerstrakes	at ends of bridge 15" thick and 36" wide for 26'-9" after ends of bridge, 28'-6" at fore and aft.																			
POOP SIDES																				
BRIDGE SIDES		988				988														
FORECASTLE SIDES			877			877														
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.?										Upper Deck (Butts, treble riveted for half length amidship, single double or overlapped for whole length amidship.)										
J. Dunlop & Co., J. Colville & Son, Ltd., Calderbank, Clydesdale, Steel Co. of Scotland, Lanarkshire Steel Co.										Middle Deck (Butts, treble riveted for whole length amidship, single double or overlapped for whole length amidship.)										
Has the Steel been tested as required by the Rules? <i>yes</i>										Butts of Bilge & Side Stringers and Tie Plates, treble or double riveted as required										
										Inner Bottom Plating, riveting of Edges of Sides and Keelsons double										
										Centre Girder Butts, treble riveted Keelson Butts, treble riveted										
										Frames, riveted through Plates with 7/8 in. Rivets, about 7 to 6 ds apart										
										Rivets, state whether Iron or Steel <i>Steel</i>										
FRAMES extend in one length from Centre line to margin plate and thence to top height.																				
REVERSED FRAMES on floors and frames extend from Centre line to margin plate, doubled under engine and boiler bearers.																				
MASTS, SPARS, &c.																				
Material, Total Length, Diameter and Thickness, No. of Plates in round, ANGLES, Riveting.																				
Lower Mast, Fore, Main, Mizzen, Bowsprit, Topmasts, Yards and Remainder of Spars, Riggers, Material and Size, Shrouds, Stays, Sails.																				
EQUIPMENT No. 53798 LETTER A																				
ANCHORS.																				
Number of Certificate, Anchors, Weight, Ex. Stock, Weight of Stock, Test, Per Certificate, Weight Required by Table 22, Description of Anchor, Makers, Where and when tested and Superintendent.																				
30720 1st Bower, 68 1 14, 52 15 2 14, 68 0 0, 30719 2nd, 66 3 14, 51 19 1 14, 68 0 0, 30671 3rd, 59 1 0, 47 18 0 14, 68 0 0, 30695 Stream, 19 1 0 4 2 18 20 1 3 14, 19 0 0, 30696 Kedge, 8 0 6 2 0 4 10 2 2 0, 8 0 0.																				
CHAIN CABLES.																				
HAWERS AND WARPS.																				
Number of Certificate, Fathoms, Size, Test per Certificate, Weight of Chain Cable, Fathoms and Size per Table 22, Description, Makers of Cables, When and where tested, and Superintendent, Material, Fathoms, Size, Breaking Test of Steel Wire, Fathoms and Size per Table 22.																				
2922 135 2 5/8, 96 3/4, 361 3/5, 270 2 5/8, Stud S. Taylor Nov. 26-11-06, Glasgow, 120 5 1/4 65, 120 5 1/4, 2923 135 2 5/8, 362 1 0 4 30 3 4, 270 Total 724 0 15, 90 5 59, 90 5 59, 90 5 59, 90 5 59.																				
Boats 4 efficient, 2 life boats and 2 ordinary boats.																				
Pumps, Number 14, Diameter of Barrel 12-5/4, State whether they are in efficient working order <i>yes</i> .																				
Windlass is efficient (Clark Chapman & Co.)																				
Engine Room Skylights. How constructed? Steel framed skylight on engine casing on bridge deck.																				
What arrangements for deadlights in bad weather? Guard bars and tarpaulins																				
Coal Bunker Openings. How constructed? Steel plates & angles, how secured? by bars in usual way Height above deck? 21'																				
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. 6 nos of scuppers, no freeing ports, open rails at gangways.																				
Ceiling in Holds, thickness and material 2 1/2 white pine Ceiling 'tween Decks, thickness and material 6 x 2 white pine sharring.																				
Cargo Hatchways. How formed? by steel plates and angles. Hatches, If strong and efficient? <i>yes &amp; solid</i> .																				
State size No. 1 Hatch (Forward) 21-8 x 22-0 No. 2 Hatch 26-0 x 22-0 No. 3 Hatch 26-0 x 22-0 No. 4 Hatch 21-8 x 22-0																				
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch two full depth webs and five wood fore and afters in each hatchway.																				
No. of Breasthooks 5 No. of Crutches deep floors aft.																				
Bulwarks, height above deck and description 4-3 steel plating, open rails at gangways Main Rail, material and size 8 x 4 steel, Tyack's Sect. A.																				
The above is a correct description.																				
Surveyor's Signature J. S. Sinnett																				
Signature of Builder J. S. Sinnett																				
Surveyor to Lloyd's Register of British and Foreign Shipping.																				

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case)

From The Secretary M. 11<sup>th</sup> June 1906 and E 15<sup>th</sup> Oct. 1906.Workmanship. Are the butts of plating planed or otherwise fitted? *Planed where possible.*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? *in a few cases.*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. 23, par. 24)? *yes.* State results of tests. *Satisfactory.*Have all the ginnerways been tested as required by the Rules (Sec. 23, par. 25)? *yes.* State results of tests. *Satisfactory.*General Remarks (State quality of workmanship, &c.) *Workmanship and Materials, good.*

This Steel Screw Steamer has been built in accordance with the Rules and the accompanying plans, submitted to and approved by the Committee, as per letters above referred to.

She has a short poop, bridge and topgallant forecastle.

Is constructed to carry water ballast in double bottom aft, under engines and boilers, in double bottom forward, and in each peak, particulars all as stated under.

Is fitted with electric light.

Excepting as regards erections, and height of main and lower decks, this vessel is practically a repeat of S.S. Cinara, Glas. Regt. No. 23343.

and S.S. Colaba " " 23472.

The Surveyor should state the Number of Report and Name of any Sister Vessel, as noted above.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 31.33 ft., R.Q.D. or Break — ft., Bridge Dk. 22.33 ft., F'castle 39 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated.

Poop is not joined to Bridge deck.

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) 2 dks (346) 34 B.

Official No. ; Signal Letters

How are the surfaces preserved from oxidation? Inside Cemented &amp; coated with paint Outside Coated with 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.	Water Capacity.	Where fitted.	*Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft.	153.8	405.	Fore peak tank.	22.8	135.
Double bottom, under Engines and Boilers.	86.7	344.	After peak tank.	15.2	77.
Double bottom, if under Engines only.			Midship deep tank.		
Double bottom, if under Boilers only.			Other tanks, if fitted.		
Double bottom, forward.	143.0	404.	(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. 473	1906: July 4, 30 Aug. 1, 6, 8, 13, 14, 20, 27, 31, Sep. 4, 7, 12, 14, 20, Oct. 2, 5, 12, 17, 19, 23, 24, 26, Nov. 2, 6, 12, 15, 16, 20, 22, 23, 26, 28, 30, Dec. 4, 6, 10, 13, 17, 20, 26, 1907: Jan. 2, 10, 14, 16, 21, 24, 31, Feb. 6, 8
Date 1. 10. 06	
No. 788 in builder's yard.	
DATES OF SURVEYS held while building	
Total No. of Visits	50

The amount of Entry Fee.....£ 5 :	Fees applied for, 18 FEB 1907	Certificate to be sent to Glasgow
Special Survey Fee ....£ 17/6 :	Received by me, J. S. Sinnett	
Travelling Expenses, if any £ :	20 2/7	

State whether the Vessel has been built under Special Survey *yes.*

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

With, or without Freeboard, as condition of Class *Without*

Signature of Surveyor J. S. Sinnett

Signature of Builder J. S. Sinnett

Signature of Committee J. S. Sinnett

Committee's Minute

Character assigned *+ 100 A 1 (Skel) dloph. S. C. P.*