

1 or 2 Dks., R.Q.Dk.,  
and Pt. Awng. Dk.

# IRON OR STEEL STEAMER.

No. 21690

JUL 13 1904

State if Report is also sent on the Machinery of the Vessel *Yes*  
Date of completion of Report *18th Oct 03*

Received at London Office

Port of *Glasgow*  
Last Survey *6th April 1904*

Survey held at  
On the

*Glasgow*  
*S.S. Cairngorm*

Date, First Survey *2nd October 03*

Rig *Fore and aft schooner*

Master *William Leitch*

Year of appointment *1894*  
(1) As master in service of owner of present vessel  
(2) As master of this vessel

TONNAGE under  
Tonnage Deck... *280.75*  
Do. of Poop... *61.48*  
Do. of Raised Qr. *12.22*  
Dk. or Break... *4.02*  
Do. of Bridge House... *5.40*  
Do. of Houses on Deck... *12.34*  
Do. of excess of Hatchways... *22.45*  
Do. above Crown of Engine Room... *400.68*  
Gross Tonnage... *89.80*  
Less Crew Space... *22.45*  
Less above Crown of Engine Room... *22.45*  
TONNAGE FOR FEES... *338.13*  
Less Engine Room... *229.29*  
Less Navigation Spaces... *14.95*

ONE OR TWO DECKED VESSEL.

CLASS *100A1*  
WELL DECK

Half Breadth (moulded) *13.0*  
Depth from upper part of Keel to top of Main Deck Bms. *12.83*  
(with the normal round up of beam)  
Girth of Half Midship Frame (as per Rule) *22.5*  
1st Number *149.33*  
Length on deck from after part of stem to fore part of stern post *140.84*  
2nd Number *6947.6*  
Proportions—Breadths to Length *5.4*  
Depths to Length—Main Deck to top of Keel *10.94*

Built at *Glasgow*  
When built *1894* Launched *21.3.04*  
By whom built *John Shearer & Sons*  
Owners *H. Robertson*  
Managers *H. Robertson*  
(Where necessary to be entered in Reg. Book.)  
Residence *Glasgow*  
Port belonging to *Glasgow*

Register Tonnage  
as cut on Beam... *116.64*

Destined Voyage *Coasting*

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, ACTUAL—Top of Floors to top of Main Deck Beams	Feet.	Inches.	No. of Decks with Flat laid	No. of Tiers of Beams
140	10		26	0		11	1 1/2		one	one

Dimensions of Ship per Register, Length, 141.4 breadth, 26.12 depth, 10.9 Moulded Depth, 12 ft. 3 ins. Round of Beam, Actual 7 ins.

FRAMING.	Inches in Ship.	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule per Approved.	16ths or 20ths per Rule	FORGINGS AND CASTINGS.	Inches in Ship.	Inches per Rule Or as Approved.	16ths or 20ths per Rule
FRAME, Angles, L, C or L Bars, for 1/2 length amidships	4 1/2	3	8 3/4	4 1/2	3	8 3/4	KEEL, Bar or Side Plates depth and thickness	4 x 1 1/2	4 x 1 1/2	4 x 1 1/2
Do. for 1/2 at each end	6	3	9 3/4	6	3	9 3/4	STEM, moulding and thickness	4 x 1 1/2	4 x 1 1/2	4 x 1 1/2
Do. in way of Double Bottoms at Solid Floors							STERN-POST for Rudder do. do.	4 x 3 1/4	4 x 3 1/4	4 x 3 1/4
" " " at intermdt. Bkts.							" for Propeller	4 x 3 1/4	4 x 3 1/4	4 x 3 1/4
Spacing of Frames from centre to centre	21"			21"			MAIN PIECE of Rudder, diameter at head	4 1/2	4 1/2	4 1/2
REVERSED FRAME, Angles	3	2 1/2	4	2 1/2	2 1/2	4	do. at heel	3 1/2	3 1/2	3 1/2
DEEP FRAMING, depth of girder							RUDDER, how constructed	Single plate 10 3/4		
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	20 x 5/16			20 x 5/16			Can the Rudder be unshipped afloat?	yes		
" in way of Engines and Boilers	20 x 5/16			20 x 5/16			KEELSONS AND STRINGERS.			
" thickness at the ends of vessel	5/16			5/16			CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate	11	9 3/4	11
" depth at 1/2 the half breadth, as per Rule	2" straight across			2" straight across			" Rider Plate	1 1/2	9 3/4	1 1/2
" height extended at the Bilges	2" higher at bilge			2" higher at bilge			" Bulb Plate to Intercoastal Keelson			
FLOORS & BRACKETS, in Cell Dble Bottoms							" Horizontal Plates on Floors			
" " state if flanged (top & bottom)							" Angles	3 1/2	3	3 1/2
" " Spacing							SIDE KEELSON, Angles	3 1/2	3	3 1/2
CENTRE GIRDER, in Double Bottom, depth and thickness							" Bulb or Plate above floors for lng.			
" " Angles, Top							" Intercoastal Plate for full length	5/16		5/16
" " Bottom							" Attached to outside plating with Angle	3	3	3
SIDE GIRDERS, number on each side & thickness							BILGE KEELSON, Angles	6	3	9 3/4
" " state if flanged (top & bottom)							" Bulb or Plate above floors for lng.			
" " Angles							" Intercoastal Plate for length			
MARGIN PLATE, depth (exclusive of flange) and thickness							" Attached to outside plating with Angle			
" " Angles to Outside Plating							BILGE STRINGER Angles	6	3	9 3/4
" " Floors							" Bulb Plate for length			
" " Height of Floors at the Bilges							" Intercoastal Plate for length			
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake							" Attached to outside plating with Angle			
" " thickness in Engine and Boiler space							SIDE STRINGER Angles	6	3	9 3/4
" " Remainder in Holds							" Bulb or Intercoastal Plate for lng.			
BEAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	5	3	4 3/4	5	3	4 3/4	" Attached to outside plating with Angle			
" " Angles on Upper Edge							Main and Raised Quarter Deck Stringer Plate, breadth and thickness	3 3/4	6/16	3 3/4
" " Spacing	Every frame			Every frame			" Angle on ditto	3 x 3	1/2	3 x 3
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb							" Tie Plates, outside Hatchways			
" " Angles on Upper Edge							" Diagonal Tie Plates on Bms., No. of Pairs			
" " Spacing							" Main Dk* Iron or Steel for full lng.			
BEAMS, Hold, Plate or Tee Bulb							" R. Q. Dk* Iron or Steel for full lng.			
" " Angles on Upper Edge							" Wood Deck, Material & thickness			
" " Spacing							Lower Deck Stringer Plate, breadth and thickness			
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb							" Angles on ditto, No.			
" " Angles on Upper Edge							" Tie Plates, outside Hatchways			
" " Spacing							" Deck* Material and thickness			
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	4 1/2	3	4 3/4	4 1/2	3	4 3/4	Hold Stringer Plate			
" " Angles on Upper Edge							" Angles on ditto, No.			
" " Spacing	all frames			all frames			Poop Deck Stringer Plate, breadth & thickness			
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	4	2 1/2	6 3/4	4	2 1/2	6 3/4	" Angle on ditto			
" " Angles on Upper Edge							" Tie Plates			
" " Spacing	every frame			every frame			" Deck, Material and thickness			
PILLARS, in two Decks, Size and Spacing							Bridge or Poop Deck Stringer Plate, breadth and thickness	19	3/4	19
" " Hold Fore Peak	3 1/2			3 1/2			" Angle on ditto			
" " Quarter, two Dks., " "							" Tie Plates			
" " in Hold							" Deck, Material and thickness			
WEB FRAMES, In Fore Body, No. and Spacing							Forecastle Deck Stringer Plate, brdth & thcknss			
" " Brdth. & Thickness							" Angle on ditto			
" " No. of Side Stringers							" Tie Plates			
WEB FRAMES, In E. & B. Space, No. & Spacing							" Deck, Material and thickness			
" " Brdth. & Thickness							* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.			
" " No. of Side Stringers							BULKHEADS.			
WEB FRAMES, In After Body, No. and Spacing							In Vessel.			
" " Brdth. & Thickness							Per Rule.			
" " No. of Side Stringers							Thickness.			
" " Size of Angles on Tee Bars to Web Frames							Horizontal.			
BRACKET PLATES to Stringers between Web Frames, Depth and Thickness							Size.			
							Spacing.			
							Vertical.			
							Size.			
							Spacing.			
							Single or Double Frames.			
							Height up			

Are the outside Plates doubled two spaces of Frames in length? yes

Are the Stairs and Watertight Doors in efficient working order? yes



**PLATING.**

STRAKES.	AS IN SHIP.			PER RULE OR AS APPROVED.	EDGES.			BUTTS.		
	AMIDSHIP.	FORWARD.	AFT.		Single or Double.	Rivets.	Double or Treble and for what length.	Rivets.	Straps.	IF LAPPED.
FLAT PLATE KEEL (If Bar Keel, state Riveting)	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
GABBOARD OF A Strake	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
State actual thickness in way of Double Bottom.	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
B "	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
C "	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
D "	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
E "	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
F "	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
G "	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
H "	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
J "	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
K "	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
L "	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
M "	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
N "	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
O "	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
P "	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
DOUBLING OF Flat Plate Keel	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
Length and thickness of Bilges	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
Length and thickness of Sheerstrakes.	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
Length and thickness of Strake below	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
POOP SIDES	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
RAISED QUARTER DE SIDES	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
BRIDGE SIDES	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
FORECASTLE SIDES	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓
LENGTHS OF PLATING	✓	✓	✓	✓	✓	Double	✓	✓	✓	✓

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.: *Glasgow S.S.C. Lamark*

Has the Steel been tested as required by the Rules *Yes*

FRAMES extend in one length from *Centre line* to *main & R.R.* state if ordinary or joggled *ordinary*

REVERSED FRAMES on floors and frames extend from *across floor only (B.A. frames)* state if ordinary or joggled *ordinary*

**MASTS, SPARS, &c.**

LOWER MASTS...	Material.	Total length.	DIAMETER AND THICKNESS.		No. of Plates in round.	ANGLES.	RIVETING.
			At Partners.	Heel.			
Fore	Wood	49.0	18	✓			
Main	"	38.0	18	✓			
Mizen	"	34.0	9	✓			

Bowsprit *✓*

Topmasts, *Yards* and Remainder of Spars *Wood*

Rigging, Material and Size, Shrouds *Steel wire 3/8"* Stays *3/4"*

Sails. *one* Suit of *fine & soft* Sails and the following spare sails *None*

Equipment No. *1889* Letter *g*

**ANCHORS.**

Number of Certificate.	Anchors.	WEIGHT, EX STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE.			Description of Anchor.	Makers.	Where and when tested and Superintendent.														
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	Cwts.	qrs.				lbs.													
1st Bower	10	2	0	0	12	8	3	10	1	0	0	10	1	0	0	10	1	0	0	10	1	0	0	10	1	0	0
2nd "	10	2	0	0	12	8	3	10	1	0	0	10	1	0	0	10	1	0	0	10	1	0	0	10	1	0	0
3rd "	8	3	14	0	11	0	0	8	3	0	0	8	3	0	0	8	3	0	0	8	3	0	0	8	3	0	0
Collective weight	28	3	14	0	29	1	0	29	1	0	0	29	1	0	0	29	1	0	0	29	1	0	0	29	1	0	0
Stream	2	3	21	0	2	3	21	0	2	3	21	0	2	3	21	0	2	3	21	0	2	3	21	0	2	3	21
Kedge	1	1	0	0	1	1	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0

**CHAIN CABLES.**

Number of Certificate.	Length and size supplied.	Test per Certificate.	WEIGHT OF CHAIN CABLE.		Length and size per Table 22.	Description.	Makers of Cables.	Where and when tested and Superintendent.
			Supplied.	Per Table 22.				
1876	165 1 1/2 30 to 30 1/2	95.26 95.1 9	165 1 1/2 30 to 30 1/2	95.26 95.1 9	165 1 1/2 30 to 30 1/2	165 1 1/2 30 to 30 1/2	165 1 1/2 30 to 30 1/2	165 1 1/2 30 to 30 1/2
Iron Stream Chain or Steel Wire	60 2 3/4 18 1/2	18 1/2	60 2 3/4 18 1/2	18 1/2	60 2 3/4 18 1/2	60 2 3/4 18 1/2	60 2 3/4 18 1/2	60 2 3/4 18 1/2

**HAWSERS AND WARPS.**

Number of Certificate.	Length and size supplied.	Test per Certificate.	Length and size per Table 22.	Description.	Makers of Cables.	Where and when tested and Superintendent.	
							1876

**BOATS.** 2 lifeboats 16.0 x 5.6 x 2.1 1/2 with full equipment

**PUMPS.** Number *Two* Diameter of Barrel *4"* State whether they are in efficient working order *yes*

**WINDLASS.** *Clarke Chapman's* steam.

**ENGINE ROOM SKYLIGHTS.** How constructed? *Of glass on top of high casing*

What arrangements for deadlights in bad weather? *Pattern of glass panes*

**COAL BUNKER OPENINGS.** How constructed? *Plate & angles* How are lids secured? *Pattern of glass panes* Height above deck? *4' 10"*

Number of Scuppers, and number and dimensions of Freeing Ports, &c. *4 scuppers each side & 3 freeing ports each side 2.6 x 1.9*

Ceiling in Holds, thickness and material *Plate 2 1/2*

**CARGO HATCHWAYS.** How formed? *Of plate & angles*

State size No. 1 Hatch (Forward) *26' 3" x 12' 6"* No. 2 Hatch *12' 3" x 12' 6"* No. 3 Hatch *12' 3" x 12' 6"* No. 4 Hatch *12' 3" x 12' 6"*

Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch *3 web & 3 fore & afters in No. 1* *3 fore & afters in No. 2*

No. of Breasthooks *4*

**BULWARKS.** height above deck and description *3' 3" plate*

Main Rail and Stays, material and size *6" Ball stays 4 1/2 B.C. rail*

The above is a correct description.

Builder's Signature (here only) *JOHN SHEARER & SONS, LIMITED.* Surveyor's Signature *Wm. P. Denny*

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 the case)

*Secretary's letter 17. Sept 1895 & Dec. 9th 1903. Feb. 9th 1904*

**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 odd ones*

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 gutterways been tested as required by the Rules (Sec. 23, par. 25)? *yes* State results of tests *Satisfactory*

**General Remarks** (State quality of workmanship, &c.) *The workmanship is good & the vessel has been built in accordance with the approved plans, the Secretary's letter in general conformity with the rules for the class contemplated.*

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. *9* ft., F'castle *26* 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

*The R.Q.D. is joined to the bridge*

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) *1 deck iron*

Official No. *119113*; Signal Letters *—* State if Machinery is fitted aft *yes*

How are the surfaces preserved from oxidation? Inside *Polland cement & Paint* Outside *Paint*

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

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
Double bottom, aft.	✓	✓	Fore peak tank,	24.6	45
Double bottom, under Engines and Boilers,	✓	✓	After peak tank,	✓	✓
Double bottom, if under Engines only,	✓	✓	Deep tank, aft.	✓	✓
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward	✓	✓
Double bottom, forward,	✓	✓	Other tanks, if fitted,	✓	✓

Total capacity *✓* (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. *2671*

Date *6.10.03*

No. *36* in builder's yard.

DATE OF SURVEY held while building

1903: Dec. 2, 12, 21, 22, 24, 27, 28, 29. Nov. 2, 3, 7, 11, 13, 18, 20, 24, 25, 26, 30. Dec. 1, 2, 4, 5, 11, 15, 18.

28. 20. 1902: Jan. 4, 8, 14, 22, 29. Feb. 1, 2, 4, 9, 22, 26. Mar. 28. April 1, 6

Total No. of Visits *41*

The amount of Entry Fee *£ 2* Fees applied for, *18 APR 1904*

Special *£ 16: 18* Received by me *2074/104*

Traveling Expenses, if any *£*

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

I am of opinion this Vessel should be Classed *100 A.1* "Steel deck" *Steel deck*

Without Freeboard, as condition of Class

Committee's Minute *Glasgow 18 APR 1904*

Character assigned *100 A.1 (Steel) 100 A.1*

(Steel deck)

When fee is paid

Surveyor to Lloyd's Register of British and Foreign Shipping.