

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

IRON OR STEEL STEAMER.

BOX CASE

Received at London 15 MAY 1894

and Pt. Awng. Dk.

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

Date of completion of Report 10 May 1894

Port of Glasgow

Date, First Survey 6 December 1893

Last Survey 3 May 1894

No. 12938 Survey held at  
On the "Citrine"

ONE OR TWO DECKED VESSEL.

Rig Schooner 3 Masts

Master W. Leitch

Year of appointment 1894

TONNAGE under  
Tonnage Deck... 437.75  
Do. of Poop  
Do. of Raised Qr.  
Do. of Break...  
Do. of Bridge House  
Do. of Forecastle  
Do. of Houses on Deck  
Do. of excess of Hatchways  
Do. above Crown of  
Engine Room...  
Gross Tonnage 602.25  
Less Crew Space  
Less above Crown of  
Engine Room...  
TONNAGE FOR FEES... 512.99  
Engine Room 328.60  
Navigation Spaces 23.42

CLASS 100 A

FEET.

Half Breadth (moulded) 14.5  
Depth from upper part of Keel to top of Main Deck Beam 13.75  
Girth of Half Midship Frame (as per Rule) 25.58  
1st Number 53.83  
Length 178.63  
2nd Number 96.15  
Proportions—Breadths to Length 6.15  
Depths to Length—Main Deck to top of Keel 12.9  
Destined Voyage Boasting

Built at Bowling  
When built 1894 Launched 21 April  
By whom built Scott & Sons  
Owners W. Robertson  
Managers  
Residence 15 Gordon St Glasgow  
Port belonging to Glasgow

Register Tonnage 198.86

Surveyed while Building, Afloat, or in Dry Dock

LENGTH on Deck 178 1/2  
BREADTH—Moulded 29 0  
DEPTH—Top of Floors to Main Deck Beams 10 10  
Power of Engines 120  
No. of Decks with Flat laid 1  
No. of Tiers of Beams 1  
Dimensions of Ship per Register, Length, 180.0 breadth, 29.1 depth, 10.65 Moulded Depth, ft. 13 ins. 0 Round of Beam 10 inches.

FRAMING.				FORGINGS AND CASTINGS.			
	Inches in Ship	Inches in Ship	Inches in Ship		Inches in Ship	Inches in Ship	Inches in Ship
FRAME, Angles, 2 1/2 x 3 Bars, for 1/2 length	3 1/2	3	6	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	5	STEM, moulding and thickness	7 1/2 x 2 1/4	7 1/2 x 2 1/4	7 1/2 x 2 1/4
Do. in way of Double Bottoms at Solid Floors	3	3	6	STERN-POST for Rudder do. do.	7 1/2 x 4 1/4	7 1/2 x 4 1/4	7 1/2 x 4 1/4
Distance of Frame from moulding edge to	22		22	MAIN PIECE of Rudder, diameter at head	4 3/4	4 3/4	4 3/4
Reversed Frame, Angles	3	2 1/2	5	do. at heel	2 1/4	2 1/4	2 1/4
FLOORS, depth and thickness of Floor Plate	21	7	21	RUDDER, how constructed	Forged frame. Plate sides		
in way of Engines and Boilers	6		6	Can the Rudder be unshipped afloat?	Yes		
thickness at the ends of vessel	44		44	KEELSONS AND STRINGERS.			
depth at 1/2 the half breadth, as per Rule	35	9	35	CENTRE LINE KEELSON, Vertical Plate above	12	9	12
height extended at the Bilges	3 1/2	2 1/2	7	do. Rider Plate	8 1/2	9	8 1/2
FLOORS & BRACKETS, in Cell Dble Bottoms	5		5	do. Bulb Plate to Intercoastal Keelson			
Distance apart	44		44	do. Horizontal Plates on Floors	4	3	6
CENTRE GIRDER, in Double Bottom, depth	35	9	35	Angles	4	3	6
and thickness	3 1/2	2 1/2	7	SIDE KEELSON, Angles	4	3	6
Angles, Top	3 1/2	2 1/2	7	do. Bulb or Plate above floors for	6 1/2	6	6 1/2
Bottom	3 1/2	2 1/2	7	do. Intercoastal Plate for			
SIDE GIRDERS, number and thickness	2 1/2	5	5	do. Attached to outside plating with Angle			
Angles	2	3	6	BILGE KEELSON, Angles	4	3	6
MARGIN PLATE, depth (exclusive of flange)	24	6	24	do. Bulb or Plate above floors for			
and thickness	3	3	6	do. Intercoastal Plate for			
Angles	3	3	6	do. Attached to outside plating with Angle			
INNER BOTTOM PLATING, breadth and	54	6	54	BILGE STRINGER Angles			
thickness of Middle Line Strake	None		None	do. Bulb Plate for			
thickness in Engine and Boiler space	None		None	do. Intercoastal Plate for			
Remainder in Holds	5		5	do. Attached to outside plating with Angle			
BEAMS, Main and Raised Quarter Deck,	5 1/2	3	7	SIDE STRINGER Angles	3 1/2	3 1/2	6
Single Angle, Bulb Angle, Plate or Tee Bulb	15	8	15	do. Bulb or Intercoastal Plate for	22	6	22
Angles on Upper Edge	3	3	6	do. Attached to outside plating with Angle	3 1/2	3 1/2	6
Average space	22		22	Main and Raised Quarter Deck Stringer	40	8	40
BEAMS, Lower Deck, Single Angle, Bulb	22		22	Plate, breadth and thickness	3 1/2 x 3 1/2 x 7	3 1/2 x 3 1/2 x 7	3 1/2 x 3 1/2 x 7
Angle, Plate or Tee Bulb				Angle on ditto			
Angles on Upper Edge				Tie Plates fore & aft outside Hatchways			
Average space				Diagonal Tie Plates on Bms. No. of Pairs			
BEAMS, Hold, Plate or Tee Bulb				Main Dk* Iron or Steel for whole lng.	6.7.8		6.7.8
Angles on Upper Edge				Q. Dk* Iron or Steel for whole lng.	6.8		6.8
Average space				Good Deck, Material and thickness			
BEAMS, Poop Deck, Angle, Bulb Angle, Plate				Lower Deck Stringer Plate, breadth and	22	6	22
or Tee Bulb				thickness	3 1/2 x 3 1/2 x 6	3 1/2 x 3 1/2 x 6	3 1/2 x 3 1/2 x 6
Angles on Upper Edge				Angles on ditto, No.	4 x 3 x 6	4 x 3 x 6	4 x 3 x 6
Average space				Tie Plates, outside Hatchways			
BEAMS, Bridge Deck, Angle, Bulb Angle,	5 1/2	3	7	Deck* Material and thickness			
Plate or Tee Bulb	44		44	Hold Stringer Plate			
Angles on Upper Edge	4	2 1/2	6	Angles on ditto, No.			
Average space	5	3	7	Poep Deck Stringer Plate, breadth & thickness			
BEAMS, Forecastle Deck, Angle, Bulb Angle,	22		22	Angle on ditto			
Plate or Tee Bulb				Tie Plates			
Angles on Upper Edge				Deck, Material and thickness	3		3
Average space				Forecastle Deck Stringer Plate, breadth & thickness	30	6	30
BEAMS, In 'tween Decks, Size and Spacing				Angle on ditto	3 x 3 x 6	3 x 3 x 6	3 x 3 x 6
Hold				Tie Plates			
Quarter, 'tween Dks.,				Deck, Material and thickness	5.6		5.6
in Hold				Forecastle Deck Stringer Plate, breadth & thickness			
WEB FRAMES, In Fore Body, No. and Spacing	4	Spaced as on plans		Angle on ditto	3 x 3 x 6	3 x 3 x 6	3 x 3 x 6
Brdth. & Thickness	22	6	22	Tie Plates			
No. of Side Stringers	One	22	6	Deck, Material and thickness	5.6		5.6
WEB FRAMES, In E. & B. Space, No. & Spacing				Are the outside Plates doubled two spaces of Frames in length?	Yes		
Brdth. & Thickness							
WEB FRAMES, In After Body, No. and Spacing							
Brdth. & Thickness							
No. of Side Stringers							
Size of Angles or Tee Bars to Web Frames							
BRACKET PLATES to Stringers between							
Web Frames, Depth and Thickness							



PLATING.										RIVETING.									
AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.				BUTTS.									
STRAKES.		AMIDSHIP.		FORWARD.		AFT.		AMIDSHIP.		Single or Double.		RIVETS.		Double or Treble and for what Length.		RIVETS.		IF LAPPED.	
Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth of Lap.	Diam.	Spacing cr. to cr.	Diam.	Spacing cr. to cr.	Breadth.	Thickness.	Breadth.	For what Length.	
Inches.	16ths or 32ths.	16ths or 32ths.	16ths or 32ths.	Inches.	16ths or 32ths.	Inches.	16ths or 32ths.	Inches.	16ths or 32ths.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	16ths or 32ths.	Inches.	Feet.	
Side Bars																			
Flat Plate Keel (If Bar Keel, state Riveting)																			
Garboard or A Strake																			
B	40	11	11	11	32	11				double	1	5							
C	41	9	9	8	41	9				do	4 1/2	3/4	3/4	treble	7/8	11 1/4	11	✓	✓
D	52	8	8	8	52	8				do	4 1/2	3/4	3/4	do	7/8	14 1/4	9	✓	✓
E	45	10	10	8	45	10				do	4 1/2	3/4	3/4	do	7/8	16 1/4	12	✓	✓
F	49	9	7	7	49	9				do	4 1/2	3/4	3/4	do	7/8	16 1/4	11	✓	✓
G	41	8	7	7	41	8				Single	2 1/2	3/4	3/4	do	7/8	14 1/4	8	✓	✓
H	50	7	7	6	50	7				double	4 1/2	3/4	3/4	do	7/8	14 1/4	7	✓	✓
I	40	12	10	10	38	12										16 3/4	14	✓	✓
J																			
K																			
L																			
M																			
N																			
O																			
P																			
Doubling of Flat Plate Keel																			
Doubling of Bilges																			
Doubling of Sheerstrakes																			
Doubling of Strake below																			
Reop Sides																			
RAISED QUARTER DECK SIDES																			
BRIDGE SIDES																			
FORECASTLE SIDES																			
LENGTHS OF 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. *Siemens Martin Steel. Frames*  
*Nalzel. Reverse frames, Keelsons & beams. Sanmarkshire.*  
*Shell. Chydabridge. Floors. bulkhead casing of iron*  
*Stanton Malleable. Decks. iron. W. Hartwood*

Main Stringer Plate Butts, treble riveted for  $\frac{1}{2}$  length amidship.  
 Straps, single, double or overlapped for whole length amidship  
 Butts of Bilge & Side Stringers, and Tie Plates, treble or double riveted  
 Inner Bottom Plating, riveting of Edges *Single 3 Butts Simple*  
 Centre Girder Butts, double riveted. Keelson Butts, treble riveted.  
 Frames, riveted through Plates with  $\frac{3}{4}$  in. Rivets, about  $\frac{5}{4}$  apart.  
 Rivets, state whether of Iron or Steel *Iron*

FRAMES extend in one length from *Keel to margin plate and thence to gunwale*  
 REVERSED FRAMES on floors and frames extend from *Keel to margin plate on alternate frames and from margin plate to side stringer and deck alternately. Also in way of K & D to hold beam stringer & deck alternately.*

MASTS, SPARS, &c.										
Material.	Total length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.	
		At Partners.	Head.	Heads.	Head.		Number.	Size.	Spans.	Butts.
LOWER MASTS										
Fore										
Main										
Mizen										
Bowsprit										
Topmasts, Yards and Remainder of Spars										
Rigging, Material and Size, Shrouds										
Sails.										

EQUIPMENT No. 10521 LETTER *2* TONNAGE FOR TRAWLERS *✓* U.Dk.  
 ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE.				WEIGHT REQ. BY RULE			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.			
26049	1st Bower ..	15	2	15	Stockless	17	3	0	14	15	0	0	Wastney's Smith	John Jones & Son	R. W. Comen	12/3/94 J. Hart	
26014	2nd .. ..	12	0	7	3	0	7	13	19	2	21	12	0	0	Tratnam	not stated	do. 6/3/94 do
26015	3rd .. ..	10	1	4	2	2	14	12	6	2	7	10	1	0	do	do.	do. 6/3/94 do
	Collective weight	38	0	1								37	1	0			
26016	Stream ....	4	0	0	1	0	0	6	7	2	0	4	0	0	do.	do	do 6/3/94 do
26017	Kedge .....	2	0	0	0	2	0	4	10	0	0	2	0	0	Candour	do	do 6/3/94 do
	2nd Kedge ..																

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Fathoms.	Size.	Test per Certificate Tons.	WEIGHT OF CHAIN CABLE		Fathoms and Size Per Rule.	Description.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size Per Rule.					
				Supplied.	Per Rule.														
10833	195	1 1/4	10 1/2	157.12	141.0.16	195.17 1/2	Steel Link	5 Yaglor	R. W. Comen	TOWLINE	75	8 1/2		75.8 1/2					
										HAWSER	90	6 1/2		90.6 1/2					
										WARP	90	5							
	60	3	18 1/4			60.3	Steel wire	J. J. Stewart	do		90	4 1/2							

Boats *3*

Pumps, Number *3 Hand Pumps and engine Suctions* Diameter of Barrel and Tail Pipe *5 barrel. 2 1/2 tail pipe*

Windlass is *W. Reid & Co. Patent.* Capstan *do* also one of 3 barrel & 1 1/2 pipe

Engine Room Skylights.—How constructed? *Iron casing. Teak skylight over.*

What arrangements for deadlights in bad weather? *Bulls eyes in side of casing and tarpaulin over skylight*

Coal Bunker Openings.—How constructed? *Framed Hatchways* How are lids secured? *Solid latches* Height above deck? *4 1/2 above R & D*

Number of Scuppers, and number and dimensions of Freeing Ports, &c. *2 Scuppers and 3 ports in bulwarks. each 1.6 x 2.6*

Ceiling in Holds, thickness and material *2 1/2 P.P. & 1 1/2 A. then doubling.* Ceiling 'tween Decks, thickness and material *2 1/2 Spanning of H.P. above close ceiling*

Cargo Hatchways.—How formed? *Caamings of iron 30 x 6 1/2* Hatches.—If strong and efficient? *Yes. Solid 3*

State size No. 1 Hatch (Forward) *7.4 x 11.0* No. 2 Hatch *29.4 x 14.0* No. 3 Hatch *19.11 x 12.0* No. 4 Hatch *✓*

Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch *2 web plates Beams to No 2 and one web plate to No 3*

also three fore and after in each. No. of Breasthooks *3* No. of Crutches *deep floors*

Bulwarks, height above deck and description *5 1/2 x 4 1/2 bulwarks of iron* Main Rail, material and size *Channels 6 x 3 x 0. and caps*

The above is a correct description.

Builder's Signature *Scott & Sons* Surveyor's Signature *J. Thearle* 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)

17/8/93 29/8/93 5/9/93 23/11/93 5/12/93 20/12/93  
Workmanship. Are the butts of plating planed or otherwise fitted? *Planed and fitted*

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? *No*

Are the butts of Plating, Stringers, &c., properly shifted and strapped? *Yes*

General Remarks (State quality of workmanship, &c.)

*This is a well deck screw steamer, built in accordance with the approved plans attached hereto and with the Rules generally. Her frames, reverse frames, beams and shell plating are of steel and the floors, bulkheads, tank top, double bottom and deck plating are of iron.*

*The pumps and the several compartments of double bottom have been tested and found satisfactory.*

*She is a sister vessel to the S.S. "Opal". (Glasgow Report No. 12713) by same builders, for same owners.*

*Survey report kept back for Laming's particulars*

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 *89 1/2* ft., Bridge Dk. *11* ft., F'castle *36 1/4* 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) *1-deck iron*

Official No. ; Signal Letters

How are the surfaces preserved from oxidation? Inside *Paint and Portland Cement* Outside *Black Varnish*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fore peak tank,	<input checked="" type="checkbox"/>	<i>22</i>
Double bottom, forward, <i>cellular</i>	<i>95</i>	<i>140</i>	After peak tank,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Double bottom, under Engines and Boilers,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Midship deep tank,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Double bottom, if under Engines only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Other tanks, if fitted,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Double bottom, if under Boilers only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(If necessary, furnish further information by sketch.)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

Order for Special Survey No. *2409*

Date *19 August 1894*

Order for Ordinary Survey No. ☒

Date ☒

No. *104* in builder's yard

1st. On the several parts of the frame, when in place, and before the plating was wrought *1893. Dec 6. 14. 18. 19. 22. 27. 29*  
2nd. On the plating during the process of riveting *1894. Jan 5. 11. 17. 24. 26. 30. Feb 2. 5. 8. 15. 27.*  
3rd. When the beams were in and fastened and before the decks were laid *March 5. 8. 12. 15. 19. 21. April 4. 10. 18. 20*  
4th. When the ship was complete, and before the plating was finally coated or cemented *May 2. 3.*  
5th. After the ship was launched and equipped

Total No. of Visits *30*

The amount of Entry Fee .....£ *3* : " : "

Special.....£ *25* : *13* : "

Certificate\* £ " : " : "

Travelling Expenses, if any £ " : " : "

Fees applied for, *10/5/1894*

Received by me, *11/5/1894*

\* Certificate to be sent to *Glasgow*

I am of opinion this Vessel should be Classed

With, or without Freeboard, as condition of Class

*100 A 1 "Steel"*

*Deck, Bulk & double bottom iron*

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

Committee's Minute

Character assigned

*FRI 18 MAY 1894*

*100 A 1 Steel*

*15k (Iron)*

*Well deck*

*The vessel appears to have been built in accordance with the Rules and the approved plans, and it is submitted she is eligible to be classed 100 A 1 ("Steel") as recommended.*

*+ 100 A 1 ("Steel")*

*1 M (Iron) Well deck*

*M.B. = Cell DB &c. (particulars above)*

*Consent*

*[Signature]*

*15/5/94*

Null Certificate