

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

IRON OR STEEL STEAMER.

No. 16583

ED. 30 NOV 1898

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

Received at London Office.

Date of completion of Report *25th November 1898*

Port of *Glasgow*

Date, First Survey *3rd May 1898*

Last Survey *24th November 1898*

Rig *3 masted Sch.*

Survey held at
On the

Troon & Glasgow.
S. S. "Balmorino"

ONE OR TWO DECKED VESSEL.

CLASS *100 A-1*

FEET.

Master *John Robinson*

Year of appointment

(1) As master in service of
owner of present vessel:—18 98.
(2) As master of this
vessel:—18 98.

Built at *Troon*

When built *1898* Launched *1st Oct. 1898.*

By whom built *Aulsa & Co.*

Owners *John Kelly.*

Managers

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

Residence *Belfast.*

Port belonging to *Belfast.*

TONNAGE under
main Deck *303.68*
of Poop *13.96*
of Raised Qr. *68.68*
& or Break... *7.13*
of Bridge House *4.04*
Do. of Forecastle King
of Houses on Deck
No. of excess of Hatchways
No. above Crown of
Engine Room...
Gross Tonnage *461.36*
Less Crew Space *44.33*
Less above Crown of
Engine Room...
Net Tonnage *372.71*
Less Engine Room...
Less Navigation Spaces *4.56*

Register Tonnage
as cut on Beam... *89.49*

Half Breadth (moulded) *12.5*
Depth from upper part of Keel to top of Main Deck Bms.
(with the normal round up of beam) *13.02*
Girth of Half Midship Frame (as per Rule) *23.0*
1st Number *48.52*
Length on deck from after part of stem to fore part of
stern post *160.66*
2nd Number *779.5*
Proportions—Breadths to Length *6.42*
Depths to Length—Main Deck to top of Keel... *12.33*

Destined Voyage *Coasting.*

If Surveyed while Building, Afloat, or in Dry Dock *While Building*

LENGTH on Deck as Feet. Inches. BREADTH— Feet. Inches. DEPTH, ACTUAL— Feet. Inches. No. of Decks with Flat laid 1
per Rule... *160* *8* Moulded... *25* — Top of Floors to top of Main Deck Beams... *11* *8 1/2* No. of Tiers of Beams *1*

Dimensions of Ship per Register, Length, *161.75* breadth, *25.15* depth, *9.8* Moulded Depth, *12* ft. *6* ins. Round of Beam, Actual *7* ins.

FRAMING.							FORGINGS AND CASTINGS.						
	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.		Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.
FRAME, Angles, $\frac{7}{8}$ or $\frac{1}{2}$ Bars, for $\frac{1}{2}$ length amidships	3	3	4	3	3	4	KEEL, Bar or Side Plates depth and thickness	4 x 2		4 x 2			
Do. for $\frac{1}{2}$ at each end	3	3	6	3	3	6	STEM, moulding and thickness	6 1/2 x 1 3/4		6 1/2 x 1 3/4			
Do. in way of Double Bottoms at Solid Floors.							STERN-POST for Rudder do. do.	6 1/2 x 3 1/2		6 1/2 x 3 1/2			
" " at intermdt. Bkts.							" " for Propeller	6 1/2 x 3 1/2		6 1/2 x 3 1/2			
Distance of Frames from moulding edge to moulding edge, all fore and aft	21	—	—	21	—	—	MAIN PIECE of Rudder, diameter at head	5		5			
REVERSED FRAME, Angles	2 1/2	2 1/2	6	2 1/2	2 1/2	6	do. at heel	5 1/4 x 4 3/8		5 x 3 1/2			
DEEP FRAMING, depth of girder							RUDDER, how constructed	Forged frame & single plate.					
FLOORS, depth and thickness of Floor Plate at mid-line for $\frac{1}{2}$ length amidships	16 1/2	x	4	16 1/2	x	4	Can the Rudder be unshipped afloat?	Yes.					
" in way of Engines and Boilers	under Inquiry & Co. under Inquiry						KEELSONS AND STRINGERS.		Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.
" thickness at the ends of vessel	—	—	6	—	—	6	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate	11	x	10	11	x	10
" depth at $\frac{1}{2}$ the half breadth, as per Rule	straight across upper mid. section, under Inquiry & Co. under Inquiry						" Rider Plate	7 1/2	x	10	7 1/2	x	10
" height extended at the Bilges	Rule.						" Bulb Plate to Intercoastal Keelson	—	—	—	—	—	—
FLOORS & BRACKETS, in Cold Double Bottoms	—	—	7	—	—	7	" Horizontal Plates on Floors	—	—	—	—	—	—
" Distance apart	21	—	—	21	—	—	" Angles	3 1/2	3	4	3 1/2	3	4
CENTRE GIRDER, in Double Bottom, depth and thickness	21	x	9/16	21	x	9/16	SIDE KEELSON, Angles	3 1/2	3	7	3 1/2	3	7
" Angles, Top	3 1/2	3 1/2	7	3 1/2	3 1/2	7	" Bulb or Plate above floors for Iron Ing.	—	—	—	—	—	—
" Bottom	3 1/2	3	7	3 1/2	3	7	" Intercoastal Plate for $\frac{1}{2}$ length	—	—	7	—	—	7
SIDE GIRDERS, number on each side & thickness	2	—	7	2	—	7	" Attached to outside plating with Angle	3	3	6	3	3	6
" Angles	3	2 1/2	7	3	2 1/2	6	BILGE KEELSON, Angles	3 1/2	3	7	3 1/2	3	7
MARGIN PLATE, depth (exclusive of flange) and thickness	27	—	8	27	—	8	" Bulb or Plate above floors for Iron Ing.	7	x	7	6	x	6
" Angles to Outside Plating	3	3	7	3	3	7	" Intercoastal Plate for $\frac{1}{2}$ length	—	—	—	—	—	—
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	50	—	7	50	—	7	" Attached to outside plating with Angle	—	—	—	—	—	—
" thickness in Engine and Boiler space	—	—	—	—	—	—	BILGE STRINGER Angles	3 1/2	3	7	3 1/2	3	7
" Remainder in Holds	—	—	7	—	—	7	" Bulb Plate for $\frac{1}{2}$ length	—	—	—	—	—	—
BEAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	5	3	6	5	3	6	" Intercoastal Plate for $\frac{1}{5}$ length	—	—	6	—	—	6
" Angles on Upper Edge	—	—	—	—	—	—	" Attached to outside plating with Angle	3	3	6	3	3	6
" Average space	21	—	—	21	—	—	SIDE STRINGER Angles	3 1/2	3	7	3 1/2	3	7
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb							" Bulb or Intercoastal Plate for $\frac{1}{2}$ length	4	3 1/2	7	4	3 1/2	7
" Angles on Upper Edge							" Attached to outside plating with Angle	2 1/2	2 1/2	6	2 1/2	2 1/2	6
" Average space							Main and Raised Quarter Deck Stringer Plate, breadth and thickness	24 x	9	24 x	9		
BEAMS, Hold, Plate or Tee Bulb							" Angle on ditto	3 x 3 x	7	3 x 3 x	7		
" Angles on Upper Edge							" Tie Plates fore & aft, outside Hatchways	—	—	—	—		
" Average space							" Diagonal Tie Plates on Bms., No. of Pairs	—	—	—	—		
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb							" Main Dk* Iron or Steel for Iron Ing.	—	5/16	—	5/16		
" Angles on Upper Edge							" R. Q. Dk* Iron or Steel for Iron Ing.	—	5/16	—	5/16		
" Average space							" Wood Deck, Material & thickness	—	—	—	—		
BEAMS, Bridge or Pt. Awng. Deck, Angle, Bulb Angle, Plate, or Tee Bulb	5	3	6	4 1/2	3	6	Lower Deck Stringer Plate, breadth and thickness						
" Angles on Upper Edge	—	—	—	—	—	—	" Angles on ditto, No.						
" Average Space	42	—	—	42	—	—	" Tie Plates, outside Hatchways						
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	5	3	7	5	3	7	" Deck* Material and thickness						
" Angles on Upper Edge	—	—	—	—	—	—	Hold Stringer Plate						
" Average space	42	—	—	42	—	—	" Angles on ditto, No.						
PILLARS, In 'tween Decks, Size and Spacing							Poop Deck Stringer Plate, breadth & thickness						
" Hold	2 3/4	—	—	2 3/4	—	—	" Angle on ditto						
" Quarter, 'tween Dks., "	—	—	—	—	—	—	" Tie Plates						
" in Hold	3	—	—	3	—	—	" Deck, Material and thickness						
WEB FRAMES, In Fore Body, No. and Spacing	4	at sides of Hatchway					Bridge Deck Stringer Plate, brdth & thickness	20	6	20	6		
" No. of Side Stringers	—	—	—	—	—	—	" Angle on ditto	2 1/2, 2 1/2	5	2 1/2, 2 1/2	5		
WEB FRAMES, In E. & B. Space, No. & Spacing	8 ft. spaces						" Tie Plates	8	6	8	6		
" Brdth. & Thickness	—	—	—	—	—	—	" Deck, Material and thickness	Pine 2 3/4	—	2 3/4	—		
WEB FRAMES, In After Body, No. and Spacing	2	at sides of Hatchway					Forecastle Deck Stringer Plate, brdth & thcknss	20	6	20	6		
" Brdth. & Thickness	15	x	6	15	x	6	" Angle on ditto	2 1/2, 2 1/2	5	2 1/2, 2 1/2	5		
" No. of Side Stringers	—	—	—	—	—	—	" Tie Plates	8	5	8	5		
" Size of Angles or Tee Bars to Web Frames	2 1/2	2 1/2	6	2 1/2	2 1/2	6	" Deck, Material and thickness	2 3/4	—	2 3/4	—		
BRACKET PLATES to Stringers between Web Frames, Depth and Thickness	—	—	—	—	—	—	* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.						
							BULKHEADS.						
							STIFFENERS.						
							Single or Double Frames.						
							Height up						

PLATING.

STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.				BUTTS.					
	AMIDSHIP.		FORWARD.	AFT.	AMIDSHIP.		Single or Double.	Breadth of Lap.	RIVETS. Diam. Spacing cr. to cr. Inches.	Double or Treble and for what Length.	RIVETS.		STRAFS.		IF LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.					Diam.	Spacing	Diam.	Spacing	Breadth.	Thick-ness.
Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Fect.
Flat Plate Keel..... (If Bar Keel, state riveting) Garboard or A Strake... State actual thickness in way of Double Bottom. Sheerstrake POOP SIDES RAISED QUARTER DECK SIDES BRIDGE SIDES FORECASTLE SIDES LENGTHS OF PLATING.....	35	11	9	9	35	11	A. R.	4 1/2	3/4	3	D. R.	7/8	3/8	11/4	11	-
B "		9	8	8		9	"	"	"	"	T. R.	3/4	2 5/8	-	-	7 1/2
C "		10	8	8		10	"	"	"	"	"	"	"	-	-	9
D "		10	8	8		10	"	"	"	"	"	"	"	-	-	9
E "		9	7	7		9	"	"	"	"	"	3/4	2 5/8	-	-	7 1/2
F "		8	7	7		8	"	"	"	"	"	"	"	-	-	7 1/2
G "	38	12	9	9	36	12	"	"	"	"	"	7/8	3/8	16 3/4	14	-
H "																
J "																
K "																
L "																
M "																
N "																
O "																
P "																
DOUBLING OF Flat Plate Keel Length and thickness of Bilges of Sheerstrakes. of Strake below																
POOP SIDES							S. R.	2 1/4	5/8	2 5/8	T. R. in way of Break.	5/8	2 1/4	8	6 x 8	-
RAISED QUARTER DECK SIDES			6 x 8	6		6 x 8	"	"	"	"	"	"	"	"	5	-
BRIDGE SIDES		5				5	"	"	"	"	"	"	"	"	5	-
FORECASTLE SIDES			5			5	"	"	"	"	"	"	"	"	5	-
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; frames, steel for keels, floor, bulkhead, deck beams, shear strakes, and keelsons, steel for deck plating, inner bottom, and keelsons, iron for tie beam and more for summer beam.*

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

Main Stringer Plate } Butts, treble riveted for 1/2 length amidship.
Straps, single double or overlapped for full length amidship.

Butts of Bilge & Side Stringers, and Tie Plates, treble or double riveted? *as required*

Inner Bottom Plating, riveting of Edges *single*. Butts *D. R. & S. R.*

Centre Girder Butts, *T. R.* riveted. Keelson Butts, *T. R.* riveted.

Frames, riveted through Plates with 3/4 in. Rivets, about 5/4 apart.

Rivets, state whether of Iron or Steel *Iron.*

FRAMES extend in one length from Centre Line to head side to top height, also before & aft from Centre Line to top height.

REVERSED FRAMES on floors and frames extend from Centre Line to bilge stringer & gunwale alternately in way of main deck, and from Centre Line to hold stringer and gunwale alternately in way of R. Q. D. doubled from bilge to bilge in F & B space.

MASTS, SPARS, &c.

	Material.	Total length.	DIAMETER AND THICKNESS.			No. of Plates in round.	ANGLES.		RIVETING.	
			At Partners.	Heel.	Head.		Number.	Size.	Seams.	Butts.
LOWER MASTS....	Fore	P. PINE	66' 0"	14"						
	Main	"	65' 0"	14"						
	Mizen	"	65' 0"	11"						
Bowsprit										
Topmasts, Yards and Remainder of Spars										
Rigging, Material and Size, Shrouds										
Sails.	one	Suit of								

EQUIPMENT No. 2554 LETTER J TONNAGE FOR TRAWLERS - U.D.K. 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.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	Cwts.	qrs.	lbs.	Cwts.	qrs.			
40857	1st Bower ..	5	3	8	2	20	11	-	-	8	1	-	Brookman's	not stated	Nottingham, 13.7.98. H. Green	
33685	2nd ,, ..	10	1	-	-	-	12	4	14	10	1	-	Smith's Patent	d.	R. H. Commis. 13.6.98. W. Hall	
28300	3rd ,, ..	7	-	-	-	-	11	2	2	8	3	-	Stockless	d.	d. 14.7.95. Hartnoll	
	Collective weight	22	-	8	-	-										

Correspondence.—State dates and initials of persons with whom correspondence has been had.

m. 21st Jan 98, 1st April 98, F 23rd June 98.

Workmanship. Are the butts of plating planed or otherwise fitted? *planed where possible, hand fitted elsewhere.*

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? *few cases at butts only.*

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.) *Not Workman ship. good.*

This steel Screw Steamer has been built in accordance with the Rules, and the accompanying tracings submitted and approved as per Secretary's letters above referred to.

She has a K. Q. D., B. D and T of the lengths stated below.

Is to carry water ballast in double bottom forward, and in fore peak.

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 79 ft., R.Q.D. or Break 79 ft., Bridge Dk. 7 ft., F'castle 26.5 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 St. Iron*

Official No.; Signal Letters

How are the surfaces preserved from oxidation? Inside *Cemented and 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 *Girders on floors*

Where fitted.	*Length.	Water Capacity.	Where fitted.	*Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	—	—	Fore peak tank,	29.0	49
Double bottom, under Engines and Boilers,	—	—	After peak tank,	—	—
Double bottom, if under Engines only,	—	—	Midship deep tank,	—	—
Double bottom, if under Boilers only,	—	—	Other tanks, if fitted,	—	—
Double bottom, forward,	78-75	118	(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. <u>3191</u>	DATES OF SURVEYS held while building	1898. May 3. 6. 11. June 3. 10. 13. 16. 21. 22. 24. 29. July 4. 7. 26. 28. Aug 2. 4. 9. 12. 19. 22. 21. Sept. 3. 7. 13. 20. 23. 27. 29. Oct. 3. 11. 13. 26. Nov 1. 1. 4. 14. 18. 22. 24.
Date. <u>23/2/98</u>		
No. <u>75</u> in builder's yard		Total No. of Visits <u>39</u>

The amount of Entry Fee £ 2 : - : - } Fees applied for,
Special £ 18 : 13 : - } 16. 11. 1898
Certificate* £ : : } Received by me,
Travelling Expenses, if any £ 2 : 17 : 10 } 18. 11. 1898

State whether the Vessel has been built under Special Survey

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

With or without Freeboard, as condition of Class

* Certificate to be sent to Glasgow office

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

Committee's Minute
Character assigned

100A Steel

Wall st.