

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

IRON OR STEEL STEAMER.

12687
THURSDAY, 25 JAN 1894
Received at London Office

and Pt. Awng. Dk.

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

No. 12687 Survey held at Glasgow Date of completion of Report 16th Jan. 1894 Port of Glasgow
On the "Angelo" Date, First Survey 6th Oct. 1893 Last Survey 16th Jan. 1894

TONNAGE under Tonnage Deck...}	74.37
Do. of Poop	
Do. of Raised Qr.}	7.60
Do. of Break...}	
Do. of Bridge House	
Do. of Funnel	
Do. of Main Deck	
Do. of excess of Hatchways	7.16
Do. above Crown of Engine Room...}	1.08
Gross Tonnage	90.21
Less Crew Space	6.97
Less above Crown of Engine Room...}	1.08
TONNAGE FOR FEES..	82.16
Less Engine Room	37.91
Less Navigation Spaces	2.15
Register Tonnage as cut on Beam...}	43.18

ONE OR TWO DECKED VESSEL.

CLASS A - Coasting, River & Canal Purpose.

Half Breadth (moulded)	9.0
Depth from upper part of Keel to top of Main Deck Bms.	8.9
Girth of Half Midship Frame (as per Rule)	16.3
1st Number	34.2
Length	64.67
2nd Number	2211
Proportions—Breadths to Length	3.59
Depths to Length—Main Deck to top of Keel.....	7.26

Destined Voyage Coasting

Master John Thompson

Built at Glasgow

When built 1894 Launched 11th Jan.

By whom built Masbie & Thomson

Owners Andrew Blair & Co.

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

Residence Glasgow

Port belonging to Glasgow

Year of appointment (1) As master in service of owner of present vessel:—18 94
(2) As master of this vessel:—18 94

LENGTH on Deck as per Rule	64	8	BREADTH—Moulded.....	18	—	DEPTH—Top of Floors to Main Deck Beams.	8	0 1/2	Power of Engines	17	Horse.	17	No. of Decks with Flat laid On.	—	No. of Tiers of Beams On.	—
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Dimensions of Ship per Register, Length, 65.6 breadth, 18.0 depth, 8.0 Moulded Depth, ft. 8 ins. 6 Round of Beam 5 inches.

FRAMING.		Inches in Ship.	Inches in Ship.	16ths in Ship.	Inches per Rule Or a	Inches per Rule Or a	16ths per Rule Approved.
FRAME, Angles, <u>7</u> , <u>E</u> or <u>L</u> Bars, for 1/2 length amidships		3	2 1/2	6	3	2 1/2	6
Do. for 1/2 at each end		3	2 1/2	6	3	2 1/2	6
Do. in way of Double Bottoms at Solid Floors.							
Distance of Frames from moulding edge to moulding edge, all fore and aft			20			20	
REVERSED FRAME, Angles		2 1/2	2 1/2	5	2 1/2	2 1/2	5
DEEP FRAMING, depth of girder							
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships		10 1/2		5	10 1/2		5
" in way of Engines and Boilers				5			5
" thickness at the ends of vessel			7			5 1/2	
" depth at 1/2 the half breadth, as per Rule ..					21		21
" height extended at the Bilges							
FLOORS & BRACKETS, in Cell Dble Bottoms							
" Distance apart							
CENTRE GIRDER, in Double Bottom, depth and thickness							
" Angles, Top							
" Bottom							
SIDE GIRDERS, number and thickness							
" Angles							
MARGIN PLATE, depth (exclusive of flange) and thickness							
" Angles							
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake							
" thickness in Engine and Boiler space							
" Remainder in Holds							
BEAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb		3 1/2	3 1/2	6	3 1/2	3 1/2	6
" Angles on Upper Edge			20			20	
" Average space							
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb							
" Angles on Upper Edge							
" Average space							
BEAMS, Hold, Plate or Tee Bulb							
" Angles on Upper Edge							
" Average space							
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb							
" Angles on Upper Edge							
" Average space							
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb							
" Angles on Upper Edge							
" Average space							
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb							
" Angles on Upper Edge							
" Average space							
PILLARS, In 'tween Decks, Size and Spacing							
" Hold		24			As per profile		
" Quarter 'tween Dks.,							
" in Hold							
WEB FRAMES, In Fore Body, No. and Spacing		1		1		1	
" Brdth. & Thickness		14		6	14	6	
" No. of Side Stringers							
WEB FRAMES, In E. & B. Space, No. & Spacing							
" 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							

FORGINGS AND CASTINGS.		Inches in Ship.	Inches per Rule Or as Approved.				
KEEL, Bar or Side Plates depth and thickness		5 x 1 1/2	5 x 1 1/2				
STEM, moulding and thickness		5 x 1 1/2	5 x 1 1/2				
STERN-POST for Rudder do. do.		5 x 2	5 x 2				
" for Propeller		5 x 2	5 x 2				
MAIN PIECE of Rudder, diameter at head... do. at heel		3 1/2	3 1/2				
"		2	2				
RUDDER, how constructed <u>Frame forged and plated.</u> Can the Rudder be unshipped afloat? <u>Yes.</u>							
KEELSONS AND STRINGERS.		Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or a	Inches per Rule Or a	20ths per Rule Approved.
CENTRE LINE KEELSON, <u>See Bulb</u> Vertical Plate above floors, (Through Plate, or Intercoastal Plate) Bulb Plate		9	5 1/2	10	9	5 1/2	10
" Bulb Plate to Intercoastal Keelson							
" Horizontal Plates on Floors							
" Angles							
SIDE KEELSON, Angles							
" Bulb or Plate above floors for length							
" Intercoastal Plate for length <u>Wash plate</u>							5
" Attached to outside plating with Angle ..							
BILGE KEELSON, Angles <u>Single</u>		5	3	9	5	3	9
" Bulb or Plate above floors for length ..							
" Intercoastal Plate for length							
" Attached to outside plating with Angle ..							
BILGE STRINGER Angles							
" Bulb Plate for length							
" Intercoastal Plate for length							
" Attached to outside plating with Angle ..							
SIDE STRINGER Angles <u>Single</u>		5	3	9	5	3	9
" Bulb or Intercoastal Plate for length ..							
" Attached to outside plating with Angle ..							
Main and Raised Quarter Deck Stringer Plate, breadth and thickness		30	6		30	6	
" Angle on ditto		2 1/2 x 2 1/2	6		2 1/2 x 2 1/2	6	
" Tie Plates fore & aft, outside Hatchways ..							
" Diagonal Tie Plates on Bms., No. of Pairs							
" Main Dk* Iron or Steel for <u>whole</u> lng.			6.5			4 1/2	6.5
" R. Q. Dk* Iron or Steel for <u>whole</u> lng.			5			3 1/2	5
" Wood Deck, Material & thickness							
Lower Deck Stringer Plate, breadth and thickness							
" Angles on ditto, No.							
" Tie Plates, outside Hatchways							
" Deck Material and thickness							
Hold Stringer Plate							
" Angles on ditto, No.							
Deep Deck Stringer Plate, breadth & thickness ..							
" Angle on ditto							
" Tie Plates							
" Deck Material and thickness							
Bridge Deck Stringer Plate, breadth & thickness ..							
" Angle on ditto							
" Tie Plates							
" Deck Material and thickness							
Forecastle Deck Stringer Plate, breadth & thickness ..							
" Angle on ditto							
" Tie Plates							
" Deck Material and thickness							
* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.							
BULKHEADS.		Number.	Thickness.	STIFFENERS.		Single or Double Frames.	Height up.
		In Vessel.	Per Rule.	Horizontal.	Vertical.	Spacing.	
			20ths.	Inches.	Inches.	Inches.	
W. T. BULKHEADS	3	3	5	3 x 2 1/2	27	Double Deck	
PARTITION "	✓						
LONGITUDINAL "	✓						

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

GLS 169-0094 (112)

12687 gl

PLATING.

RIVETING.

STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		LOWER EDGES.				BUTTS.						
	AMIDSHIP.		FORWARD.	AFT.	AMIDSHIP.		Single or Double.	Breadth of Lap.	RIVETS.		Double or Treble and for what Length.	RIVETS.		STRAPS.		IF LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	Breadth.	Thickness.	Breadth.	For what Length.
Flat Plate Keel (If Bar Keel, state Rectang.)							Double		1	6	as approved by Sec. Letter 12/10/93			10 9/32			
GARBOARD OR A Strake	4 3/8	8	7	7	4 3/8	8	Single	2 1/2	3/4	3 3/8	"	"	"	"	"	"	5 Whole
B " "	3 9/16	6	6	6	3 9/16	6	"	"	"	"	"	"	"	"	"	"	"
C " "	4 1/8	9	7	7	4 1/8	9	"	"	"	"	"	"	"	"	"	"	"
D " "	3 6 1/2	6	6	6	3 6 1/2	6	"	"	"	"	"	"	"	"	"	"	"
E " "	5 1	7	6	6	5 1	7	"	"	"	"	Subt. Length.	"	"	14 1/2	8	"	"
F " "																	
G " "																	
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	✓																
RAISED QUARTER DK. SIDES				6		6	Single	2 1/2	3/4	3 3/8	Double	5/8	2 1/4	8	6	✓	✓
BRIDGE SIDES	✓																
FORECASTLE SIDES	✓																
LENGTHS OF PLATING	6 and 7 frame spaces.																

Manufacturer's name or trade mark of the ~~Iron~~ Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, outside Plating, &c.?
 Clydebridge; Halliwell; Dalzell; and Siemens process.

Main Stringer Plate Butts, ~~single~~ riveted for whole 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 Butts.
 Centre Girder Butts, riveted. Keelson Butts, Treble riveted.
 Frames, riveted through Plates with 5/8 in. Rivets, about 4 1/2" apart.
 Rivets, state whether of Iron or Steel Iron.

FRAMES extend in one length from keel to deck.
 REVERSED FRAMES on floors and frames extend from bilge to bilge. Double in B. & B. space.

MASTS, SPARS, &c.

	Material.	Total length.	DIAMETER AND THICKNESS.				No. of Plates in round	ANGLES.		RIVETING.	
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Butts.
LOWER MASTS	Fore	pin pole mast.									
	Main	✓									
	Mizen	✓									
Bowsprit	✓										
Topmasts, Yards and Remainder of Spars	Pine.										
Rigging, Material and Size.	Shrouds	Steel wire 2 1/2".									
	Stays	Steel wire 3".									
Sails.	One	Suit of									

EQUIPMENT No. 2308 LETTER *2308* TONNAGE FOR TRAWLERS ✓ U.Dk.
 ANCHORS

Number of Certificate.	Anchors.	WEIGHT, EX STOCK			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT KEEL BY RULE			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	Cwts.	qrs.	lbs.	Cwts.	qrs.			
25703	1st Bower	4	-	-	1	7	6	7	2	0	4	-	-	Bodgers Patent	Sunderland.	
25702	2nd "	2	-	-	2	-	4	10	-	-	2	-	-	J. Saylor & Sons.	22nd Dec. 1893.	
	3rd "														J. Hartness.	
	Collective weight	6	-	-							6	-	-			
	Stream	-	2	16	Including stock						-	2	-	Common		
	Kedge															
	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.									
10749	105	4 1/8	11 1/2	5 1/2	27-2-5	27-2-26	105-4 1/8	Short link S. Saylor & Sons.	Sunderland 11-1-94 J. Hartness	TOWLINE Hemp	75	5 1/2	75-5 1/2	75-5 1/2
										HAWSER "	90	3	90-3	90-3
										WARP "	80	2 1/2		
Stream	45	2	7			45-2								

Boats One life boat.
 Pumps, Number One hand in hold, and 1 in fore peak. Diameter of Barrel and Tail Pipe in hold 4 1/2". In fore peak 3 1/2".
 Windlass is Steam Winch Capstan ✓
 Engine Room Skylights.—How constructed? Leak on iron coamings.
 What arrangements for deadlights in bad weather? Leak shutters fitted with bulls' eyes.
 Coal Bunker Openings.—How constructed? Cast iron scuttles. How are lids secured? Self locking. Height above deck? Nil.
 Number of Scuppers, and number and dimensions of Freeing Ports, &c. On each side, 2 scuppers, and 2 ports 21" x 12".
 Ceiling in Holds, thickness and material 2 1/2" p. pine Ceiling 'tween Decks, thickness and material ✓
 Cargo Hatchways.—How formed? By plates and angles. Hatches.—If strong and efficient? Solid 2 1/2"
 State size No. 1 Hatch (Forward) 26-8 x 13-0 x 3-0 No. 2 Hatch No. 3 Hatch No. 4 Hatch
 Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch Two deep web plates and 3 fore & afters.
 No. of Breasthooks Three No. of Crutches Three
 Bulwarks, height above deck and description 2-6 steel plating 5/16 Main Rail, material and size Built angle 6 x 3 with caps iron outside 2 1/2" x 1 1/2"
 The above is a correct description.
 Builder's Signature (here only) Maestri Thomson Surveyor's Signature J. Thomson
 Surveyor to Lloyd's Register of British and Foreign Shipping.

1021087 gld

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

1893:—29th Aug., 5th Sept., 6th & 12th Oct., and 6th Nov. M. 21st Dec. E.

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*

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

General Remarks (State quality of workmanship, &c.) *The workmanship is good.*

This vessel is built in accordance with tracing forwarded to London on the 15th Jan. 1894, the accompanying tracings (2 in h.), the Secretary's letters referred to above, and in general conformity with the Rules for the Class contemplated. A statement of the equipment as approved is forwarded herewith.

The hand pumps tested and found efficient.

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 *23* ft., Bridge Dk. ft., F'castle 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) *On Deck (Steel), one tier of Beams.*

Official No. _____; Signal Letters _____

How are the surfaces preserved from oxidation? Inside *By cement and paint.* Outside *By paint.*

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

Where fitted.	Length. Feet.	Water Capacity. Tons.	Where fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	<i>8</i>	<i>10</i>
Double bottom, forward,			After peak tank, <input checked="" type="checkbox"/>		
Double bottom, under Engines and Boilers,			Midship deep tank, <input checked="" type="checkbox"/>		
Double bottom, if under Engines only,			Other tanks, if fitted, <input checked="" type="checkbox"/>		
Double bottom, if under Boilers only,			(If necessary, furnish further information by sketch.) <input checked="" type="checkbox"/>		

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

Order for Special Survey No. <i>2414</i>	DATES of Surveys held while building as per Section 18.	1st. On the several parts of the frame, when in place, and before the plating was wrought) <i>1893:—Oct. 6, 11, 17, 20, 24, 27. Nov. 1, 2, 7, 9.</i>
Date <i>26th Sept. 1893</i>		2nd. On the plating during the process of riveting <i>14, 18, 22, 28. Dec. 1, 6, 11, 18, 21. 1894:—Jan.</i>
Order for Ordinary Survey No. <input checked="" type="checkbox"/>		3rd. When the beams were in and fastened and before the decks were laid..... <i>13, 16.</i>
Date <input checked="" type="checkbox"/>		4th. When the ship was complete, and before the plating was finally coated or cemented.....
No. <i>79</i> in builder's yard		5th. After the ship was launched and equipped

Total No. of Visits *21*

The amount of Entry Fee £ <i>1</i> : " : "	Fees applied for, <i>16/11 1894</i>	* Certificate to be sent to <i>Glasgow</i>
Special..... £ <i>4</i> : " : "	Received by me, <i>14/11 1894</i>	
Certificate* £ " : " : "		
Travelling Expenses, if any £ " : " : "		

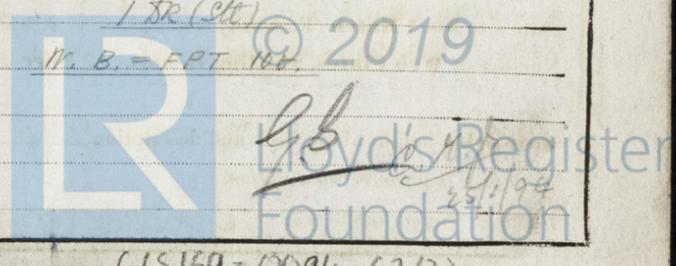
I am of opinion this Vessel should be Classed *A1-Coasting, River & Canal Purposes* *J. Thomson*
Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute *FRI 26 JAN 1894*

Character assigned *A1 Steel*
a + c Coasting River & Canal purposes
RMC 1, 94
W. B. (SSE)

This 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 A1 ("Steel") "Coasting, River & Canal purposes" as recommended.

A1 ("Steel") "Coasting, River & Canal purposes"
L. B. (SSE)
W. B. - F.P.T. 1894



GLS169-0094 (2/2)

The Surveyors are requested not to write on or below the Committee's Minute.

Hull Certificate written.