

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

# IRON OR STEEL STEAMER.

THUR, SEP 24 1896  
Received at London Office,

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

Date of completion of Report *23<sup>rd</sup> Sept. 1896*

Date, First Survey *16<sup>th</sup> March*

Port of *Leith*

Last Survey *18<sup>th</sup> Sept.*

1896.

Rig *One Pole Mast.*

Master *R. George*

Year of appointment

(1) As master in service of  
owner of present vessel:—18 90  
(2) As master of this  
vessel:—18 96

Built at *Leith*

When built *1896* Launched *11<sup>th</sup> August, 1896.*

By whom built *John Crain & Co*

Owners *Alexandra Towing Co. (Lim<sup>d</sup>)*

Managers

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

Residence *Liverpool*

Port belonging to *Liverpool*

ONE OR TWO DECKED VESSEL.

CLASS *100 A 1*

FEET.

Half Breadth (moulded) *10.*

Depth from upper part of Keel to top of Main Deck Bms. *12. 4*

Girth of Half Midship Frame (as per Rule) *19.*

1st Number *41. 4*

Length *92*

2nd Number *3778. 8*

Proportions—Breadths to Length *4. 6*

Depths to Length—Main Deck to top of Keel *7. 4*

Destined Voyage *Liverpool*

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

LENGTH on Deck Feet. Inches. BREADTH—Feet. Inches. DEPTH—Feet. Inches. Power of Horse. No. of Decks with Flat laid One  
as per Rule..... 92 11 Moulded..... 20 11 Top of Floors to Main Deck Beams. 10 11 Engines 84 No. of Tiers of Beams One  
Dimensions of Ship per Register, Length, 92. 3 breadth, 20. 15 depth, 10. 9 3. Moulded Depth, ft. 12 ins. 11 Round of Beam 5 inches.

## FRAMING.

	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Appro.	Inches per Rule Or as Appro.	Inches per Rule Or as Appro.
AME, Angles, <i>7, E or L</i> Bars, for $\frac{3}{4}$ length amidships.....	3	2 $\frac{1}{2}$	5	3	2 $\frac{1}{2}$	5
o. for $\frac{1}{2}$ at each end.....	3	2 $\frac{1}{2}$	5	3	2 $\frac{1}{2}$	5
e. in way of Double Bottoms at Solid Floors.....						
" " at intermdt. Bkts.						
ance of Frames from moulding edge to moulding edge, all fore and aft.....	21			21		
VERSED FRAME, Angles.....	2 $\frac{1}{2}$	2 $\frac{1}{2}$	4 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	4 $\frac{1}{2}$
EP-FRAMING, depth of girder.....						
DOORS, depth and thickness of Floor Plate at mid-line for $\frac{3}{4}$ length amidships.....	18	6		18	6	
" in way of Engines and Boilers.....			7		7	
" thickness at the ends of vessel.....			6		6	
" depth at $\frac{3}{4}$ the half breadth, as per Rule.....	<i>Straight as per Mid. Section</i>					
" height extended at the Bilges.....						
DOORS & BRACKETS, in Cell Dble Bottoms						
" " Distance apart.....						
NTRE GIRDER, in Double Bottom, depth and thickness.....						
" " Angles, Top.....						
" " " Bottom.....						
DE GIRDERS, number and thickness.....						
" " Angles.....						
RGIN PLATE, depth (exclusive of flange) and thickness.....						
" " Angles.....						
NER BOTTOM PLATING, breadth and thickness of Middle Line Strake.....						
" " thickness in Engine and Boiler space						
Remainder in Holds.						
AMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb.....	5 $\frac{1}{2}$	3	7	5 $\frac{1}{2}$	3	7
" " Angles on Upper Edge.....						
" " Average space.....	42			42		
AMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb.....						
" " Angles on Upper Edge.....						
" " Average space.....						
EAMS, Hold, Plate or Tee Bulb.....						
" " Angles on Upper Edge.....						
" " Average space.....						
EAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb.....						
" " Angles on Upper Edge.....						
" " Average space.....						
EAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb.....						
" " Angles on Upper Edge.....						
" " Average Space.....						
EAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb.....						
" " Angles on Upper Edge.....						
" " Average space.....						
ILLARS, In 'tween Decks, Size and Spacing						
" " Hold.....	2 $\frac{1}{2}$	42		2 $\frac{1}{2}$	42	
" " Quarter, 'tween Dks., " " in Hold						
EB FRAMES, In Fore Body, No. and Spacing						
" " " Brdth. & Thickness						
" " No. of Side Stringers " " "						
EB FRAMES, In E. & B. Space, No. & Spacing						
" " " Brdth. & Thickness						
EB 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	6 $\frac{1}{2}$ x 1 $\frac{1}{8}$	6 $\frac{1}{2}$ x 1 $\frac{1}{8}$
STEM, moulding and thickness.....	6 $\frac{1}{2}$ x 1 $\frac{1}{8}$	6 $\frac{1}{2}$ x 1 $\frac{1}{8}$
STERN-POST for Rudder do. do. ....	6 x 2 $\frac{1}{2}$	6 x 2 $\frac{1}{2}$
" " for Propeller.....	6 x 2 $\frac{1}{2}$	6 x 2 $\frac{1}{2}$
MAIN PIECE of Rudder, diameter at head....	4	4
do. at heel....	3 $\frac{1}{2}$ x 2 $\frac{1}{2}$	3 $\frac{1}{2}$ x 2 $\frac{1}{2}$

RUDDER, how constructed *Ordinary Hay*  
Can the Rudder be unshipped afloat? *Yes*

## KEELSONS AND STRINGERS.

	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Appro.	Inches per Rule Or as Appro.	Inches per Rule Or as Appro.
CENTRE LINE KEELSON, Vertical Plate above floors, (Through Plate, or Intercoastal Plate).....	6	3	8	6	3	8
" " Rider Plate.....						
" " Bulb Plate to Intercoastal Keelson.....						
" " Horizontal Plates on Floors.....						
" " Angles.....						
SIDE KEELSON, Angles.....						
" " Bulb or Plate above floors for lng. length						
" " Intercoastal Plate for lng. length						
" " Attached to outside plating with Angle..						
BILGE KEELSON, Angles.....	5	4	8	5	4	8
" " Bulb or Plate above floors for lng. length						
" " Intercoastal Plate for lng. length						
" " Attached to outside plating with Angle..						
BILGE STRINGER Angles.....	5	4	8	5	4	8
" " Bulb Plate for lng. length						
" " Intercoastal Plate for lng. length						
" " Attached to outside plating with Angle..						
SIDE STRINGER Angles.....						
" " Bulb or Intercoastal Plate for lng. length						
" " Attached to outside plating with Angle..						

Main and Raised Quarter Deck Stringer Plate, breadth and thickness.....	21	6	21	6
" " Angle on ditto.....	3 x 3 x	6	3 x 3 x	6
" " Tie Plates fore & aft, outside Hatchways.....				
" " Diagonal Tie Plates on Bms., No. of Pairs				
" " Main Dk* Iron or Steel for <i>whole</i> lng.		5		5
" " R. Q. Dk* Iron or Steel for lng.				
" " 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. ....				
Poop Deck Stringer Plate, breadth & thickness				
" " Angle on ditto.....				
" " Tie Plates.....				
" " Deck, Material and thickness				
Bridge Deck Stringer Plate, brdth & thickness				
" " Angle on ditto.....				
" " Tie Plates.....				
" " Deck, Material and thickness				
Forecastle Deck Stringer Plate, brdth & thcknss				
" " 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.

	Number.	Thickness.	Horizontal.	Vertical.	Spacing.	Single or Double Frames.	Height up.
BULKHEADS.	In Vessel.	Per Rule.	Inches.	Inches.	Inches.		
W.T. BULKHEADS	4	4	4	3 x 2 $\frac{1}{2}$ x $\frac{5}{16}$	3 x 2 $\frac{1}{2}$ x $\frac{5}{16}$	3.0	Double Main Dk
PARTITION "	✓						
LONGITUDINAL "	✓						
Are the outside Plates doubled two spaces of Frames in length? <i>Yes</i>							



PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		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 or to cr.	Breadth.	Thickness.	Breadth.	For what Length.			
FLAT PLATE KEEL	3 6	7	7	7	3 6	7	Double	4 1/2	3	5	Double	3 1/2	2 5/8	9 3/4	8				
GARBOARD OR A STRAKE							Single	2 1/2	3 1/4	3	Double	3 1/2	2 5/8	9 3/4	8				
B "		6	6	6	6		Single	2 1/2	3 1/4	3	Double	3 1/2	2 5/8	9 3/4	8				
C "		6	6	6	6		Single	2 1/2	3 1/4	3	Double	3 1/2	2 5/8	9 3/4	8				
D "		6	6	6	6		Single	2 1/2	3 1/4	3	Double	3 1/2	2 5/8	9 3/4	8				
E "		6	6	6	6		Single	2 1/2	3 1/4	3	Double	3 1/2	2 5/8	9 3/4	8				
F "	3 4	7	7	7	3 4	7	Double	4 1/2	3	3	Double	3 1/2	2 5/8	9 3/4	8				
G "																			
H "																			
J "																			
K "																			
L "																			
M "																			
N "																			
O "																			
P "																			
DOUBLE LINE OF FLAT PLATE KEEL																			
of Bilges																			
of Sheerstrakes																			
of Strake below																			
POOP SIDES																			
RAISED QUARTER DECK SIDES																			
BRIDGE SIDES																			
FORECASTLE SIDES																			
LENGTHS OF PLATING	7 frame spaces																		

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. : *Limens Martin process*

Place, outside Plating, &c. : *Kallide, Lanarkshire; Clydebank, Clydebank*

Main Stringer Plate Butts, double 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? *Double & double*

Inner Bottom Plating, riveting of Edges Butts

Centre Girder Butts, riveted. Keelson Butts, riveted.

Frames, riveted through Plates with *3/4* in. Rivets, about *5 1/2* apart.

Rivets, state whether of Iron or Steel *Iron*

FRAMES extend in one length from *Keel* to *Runnel*

REVERSED FRAMES on floors and frames extend from *middle line to upper turn of bilges*

MASTS, SPARS, &c.

LOWER MASTS	Material.	Total length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.
			At Partners.	Heel.	Head.	Number.		Size.		
Fore	<i>One wood Pole mast</i>									
Main										
Mizen										

Bowprit

Topmasts, Yards and Remainder of Spars

Rigging, Material and Size, Shrouds *Steel Wire*

Sails, *One* Suit of

Stays *Do*

Sails and the following spare sails

EQUIPMENT No. *✓* LETTER *✓* TONNAGE FOR TRAWLERS *✓* U.D.K. *✓*

ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE			WEIGHT REC. BY RULE			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	Cwts.	qrs.	lbs.	Cwts.	qrs.			
3 8 13 7	1st Bower	3	3	13	1	0	2	6	5	1	7	4		<i>Broton's 1 1/2</i>	<i>Keel &amp; Willott</i>	<i>10 Aug. 96</i>
3 8 13 6	2nd "	3	1	0	3	13	5	14	1	14	3		<i>Do</i>	<i>Do</i>	<i>Do</i>	
	3rd "															
	Collective weight	7	0	13							7					
	Stream															
	Kedge															
	2nd Kedge															

CHAIN CABLES.

Number of Certificate.	Fathoms.	Size.	Test per Certificate.		WEIGHT OF CHAIN CABLE.		Fathoms and Size per Rule.	Description.	Makers of Cables.	When and where tested, and Superintendent.	HAWERS AND WARPS.	
			Tons.	Supplied.	Per Rule.	Material.					Fathoms.	Size.
2 7 3 2 1	90-5	1 1/2	12-15-0-0	22-0-0	21-3-7	90-5	1 1/2	<i>Lead Link Keel &amp; Willott</i>	<i>10 Aug. 96</i>	<i>Keel &amp; Willott</i>	<i>75-5</i>	<i>75-5</i>
2 7 3 2 3	45	3/4	6-0-0-0	6-3-2	7-1-0	45-8	3/4	<i>Short link</i>	<i>Do</i>	<i>Do</i>	<i>90-3</i>	<i>90-3</i>

Boats *One*

Pumps, Number *Two*

Windlass is *Clark, Chapman & Co's iron Patent*

Engine Room Skylights.—How constructed? *Iron casing with glass bullseyes*

What arrangements for deadlights in bad weather? *None*

Coal Bunker Openings.—How constructed? *Iron casing* How are lids secured? *Butt down* Height above deck? *6' 6"*

Number of Scuppers, and number and dimensions of Freeing Ports, &c. *Each side 4 scuppers & 3 mesh ports*

Ceiling in Holds, thickness and material *2 1/2" pine* Ceiling 'tween Decks, thickness and material *Cabin lining*

Cargo Hatchways.—How formed? *Iron Cornings* Hatches.—If strong and efficient? *yes*

State size No. 1 Hatch (Forward) *3 ft x 3 ft* No. 2 Hatch *No. 3 Hatch* No. 4 Hatch *No. 4 Hatch*

Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch *None*

No. of Breasthooks *2* No. of Crutches *2*

Bulwarks, height above deck and description *3 ft of 1/2" iron* Main Rail, material and size *Iron 6 1/2 x 1/2 patent section*

The above is a correct description.

Builder's Signature (here only) *John Lewis* Surveyor's Signature *H. Paulsen*

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) *20th March '96*

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? *No, except a few in butts.*

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

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

Workmanship & Material Good.

This vessel is built in accordance with approved plan of midship section forwarded to the Secretary on the 16th Sept. '96 and in conformity with the Rules.

The Deck was flooded & found tight; there are no watertight doors.

Approved plan of Profile & a forging Rept. are hereto attached.

For completion of survey the working of the handpumps & 2 sluice valves in bulkheads require to be tested, and the afterpeak tank top to be made watertight & tested as per Rule, as intimated to the builders verbally & by letter of which a press copy is hereto attached & to which no reply has been received, the vessel having sailed for Liverpool on the 19th inst.

The Surveyor should state the Number of Report and Name of any Sister Vessel. *None.*

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *✓* ft., R.Q.D. or Break *✓* ft., Bridge Dk. *✓* ft., Forecastle *✓* 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 BR. (iron)*

Official No. ; Signal Letters

How are the surfaces preserved from oxidation? Inside *Portland Cement & Paint* Outside *Paint*

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.	Feet.	Tons.
Double bottom, aft,			Fore peak tank,		
Double bottom, forward,			After peak tank,		
Double bottom, under Engines and Boilers,			Midship deep tank,		
Double bottom, if under Engines only,			Other tanks, if fitted,		
Double bottom, if under Boilers only,			(If necessary, furnish further information by sketch.)		

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

Order for Special Survey No. *658*

Date *21st March '96*

Order for Ordinary Survey No.

Date

No. *37* in builder's yard

1st. On the several parts of the frame, when in place, and before the plating was wrought

2nd. On the plating during the process of riveting

3rd. When the beams were in and fastened and before the decks were laid

4th. When the ship was complete, and before the plating was finally coated or cemented

5th. After the ship was launched and equipped

1896 March 16, April 6, 15, 16, 22, 29, May 6, 12, 18, 22, 28, June 1, 3, 8, 10, 11, 15, 18, 22, 23, 25, 30, July 9, 10, 17, 22, 23, 25, 30, Aug 3, 7, 12, 19, 25, Sept. 14, 16, 17, 18, 19.

Total No. of Visits *39*

The amount of Entry Fee *£ 1*

Special *£ 7*

Certificate *£*

Travelling Expenses, if any *£*

Fees applied for, *23rd Sept. 1896*

Received by me, *H. Paulsen*

I am of opinion this Vessel should be Classed *+ 100 A1 Steel for Sailing Purposes*

With, or without Freeboard, as condition of Class *subject to After Peak Tank being put right.*

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

Committee's Minute

Character assigned *100 A1 Steel for Sailing Purposes*

*21st March 96*

*H. Paulsen*

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