

Sailing Vessel. ~~IRON OR~~ STEEL SAILING SHIP.

No. 11079

Port of *Greenock* Date of completion of Report *22nd August 1894* Received at London Office
Survey held at *Port Glasgow* Date of First Survey *April 20th* Last Survey *14th August 1894*
On the *Clyde* Rig *Ship*

TONNAGE under
Tonnage Deck } *1641.83*
Do. of Poop } *42.23*
Do. of raised Q. }
Do. of Bridge House }
Do. of Forecastle } *54.83*
Do. of Houses on Deck } *40.44*
Do. of covers of Hatchways }
Gross Tonnage } *1812.66*
Less Crew Space } *86.40*
TONNAGE FOR FEES.. } *1425.96*
Less Navigation spaces } *41.53*
Register Tonnage } *1654.43*
as cut on Beam.... }

TWO DECKED VESSEL.

CLASS *100A1*

Half Breadth (moulded)..... *19.41*
Depth from upper part of Keel to top of Upper Deck Beams..... *24.75*
Girth at Half Midship Frame (as per Rule)..... *39.66*
1st Number..... *83.82*
Length..... *258.4*
2nd Number..... *21659*
Proportions—Breadths to Length..... *6.65*
Depths to Length—Upper Deck to top of Keel..... *10.44*
Destined Voyage *Calcutta via Buo.* If Surveyed while Building, Afloat, or in Dry Dock *Building afloat.*

Master *Alfred Kilder*
Year of Appointment *1894*
Built at *Port Glasgow*
When built *1894* Launched *26th July*
By whom built *Russell & Co*
Owners *James Nourse*
Managers.....
(Where necessary to be entered in Reg. Book.)
Residence *3 Fenchurch Avenue*
London, E.C.
Port belonging to *London*

LENGTH on deck as per rule.....	Feet. 258	Inches. 5	BREADTH—Moulded.....	Feet. 38	Inches. 10	DEPTH—Top of Floors to Upper Deck Beams..	Feet. 22	Inches. 8 1/2	No. of Decks with Flat laid	2	No. of Tiers of Beams	2										
Dimensions of Ship per Register, Length, <i>240.9</i> breadth, <i>39.0</i> depth, <i>22.5</i> . Moulded depth, ft. <i>23</i> in. <i>10 1/4</i> . Round up of Beam <i>11</i> ins.																						
FORGINGS AND CASTINGS.			Inches in Ship.		Inches per Rule Or as Approved.		KEELSONS AND STRINGERS.					Inches in Ship.		Inches in Ship.		10ths or 20ths in Ship.		Inches per Rule Or as Approved.		10ths or 20ths per Rule		
KEEL, Bar or Side Plates, depth and thickness			10 x 2 1/2		10 x 2 1/2		CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate					19		13		19		13				
STEM, moulding and thickness.....			10 x 2 1/2		10 x 2 1/2		Rider Plate.....					11 1/4		13		11 1/4		13				
STERN-POST, do. do.			10 x 2 1/2		10 x 2 1/2		Bulb Plate to Intercoastal Keelson.....															
MAIN-PIECE of RUDDER, diameter at head..			7		6 3/4		Horizontal Plates above floors.....					5 1/2		4		9		5 1/2		4		
" " " at heel..			3 1/2		3 1/2		Angles.....					5 1/2		4		9		5 1/2		4		
RUDDER, how constructed <i>Iron frame & side plates</i>							SIDE KEELSON, Angles.....					5 1/2		4		9		5 1/2		4		
Can the Rudder be unshipped afloat? <i>Yes</i>							Bulb or Plate above floors for <i>as per rule</i>									8				8		
FRAMING.			Inches in Ship.		Inches in Ship.		10ths or 20ths in Ship.		Inches per Rule Or as Approved.		Inches in Ship.		Inches in Ship.		10ths or 20ths in Ship.		Inches per Rule Or as Approved.		10ths or 20ths per Rule			
FRAME, Angles, <i>7</i> Bars, for 1/2 length amidships			5		3 1/2		8		5		3 1/2		8		5		3 1/2		8			
Do. for 1/2 at each end.....			5		3 1/2		4		5		3 1/2		4		5		3 1/2		4			
Distance of Frames from moulding edge to moulding edge, all fore and aft.....			24				24				24				24				24			
REVERSED FRAME, Angles.....			3 1/2		3 1/2		8		3 1/2		3 1/2		8		3 1/2		3 1/2		8			
DEEP FRAMING, depth of girder.....																						
FLOORS, depth and thickness of Floor Plate at mid line for 1/2 length amidships..			24 1/2		10		24 1/2		10		24 1/2		10		24 1/2		10		24 1/2		10	
" thickness at the ends of vessel.....					9		8		9		8		9		8		9		8			
" depth at 1/2 the half breadth, as per Rule..			12 1/4				12 1/4				12 1/4				12 1/4				12 1/4			
" height extended at the Bilges.....			49				49				49				49				49			
BEAMS, Main Deck, Single Angle, Bulb Angle, Plate or Tee Bulb.....			9		9		9		9		9		9		9		9		9			
" Angles on Upper Edge.....			3 1/2		3		4		3 1/2		3		4		3 1/2		3		4			
" Average space.....			48				48				48				48				48			
BEAMS, Lower Deck, Plate or Tee Bulb.....			9 1/2		9		9 1/2		9		9 1/2		9		9 1/2		9		9 1/2			
" Angles on Upper Edge.....			3 1/2		3 1/2		4		3 1/2		3 1/2		4		3 1/2		3 1/2		4			
" Average space.....			48				48				48				48				48			
BEAMS, Hold, Plate or Tee Bulb.....																						
" Angles on Upper Edge.....																						
" Average space.....																						
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb.....			6 1/2		3		9		6 1/2		3		9		6 1/2		3		9			
" Angles on upper edge.....																						
" Average space.....			48				48				48				48				48			
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, or Tee Bulb.....																						
" Angles on upper edge.....																						
" Average space.....																						
BEAMS, Forecastle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb.....			4		4		4		4		4		4		4		4		4			
" Angles on Upper Edge.....			3		3		6		3		3		6		3		3		6			
" Average space.....			48				48				48				48				48			
PILLARS, In 'tween Decks, Size and Spacing			2 1/4		48		2 1/4		48		2 1/4		48		2 1/4		48		2 1/4		48	
" Hold.....			4		48		4		48		4		48		4		48		4		48	
" Quarter, 'tween Dks.,.....																						
" in Holds,.....																						
WEB FRAMES, Number and Spacing.....																						
" Breadth and thickness.....																						
" No. of Side Stringers, breadth & thickness																						
" Size of Angles on Tee Bars to Web Frames																						
BRACKET PLATES to Stringers between Web Frames, Depth and Thickness.....																						
BULKHEADS.			Number.		Thickness.		STIFFENERS.		Single or Double Frames.		Height up.											
" In Vessel.			1		1		Horizontal.		Vertical.		Spacing.											
" Per Rule.			1		1		Inches.		Inches.		Inches.											
W. T. BULKHEADS			1		1		7 1/2		8 1/2		5 1/2		30		24		24		24		24	
PARTITION							1		1		1											
Are the outside Plates doubled two spaces of Frames in length?							Yes															

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.		LAPPED.						
	Breadth	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Diam.	Spacing cr. to cr.			Diam.	Spacing cr. to cr.		Breadth.	Thick-ness.	Breadth.	Thick-ness.	Breadth.	For what Length.					
	Inches.	^{100th} or ^{20ths}	^{100th} or ^{20ths}	^{100th} or ^{20ths}	Inches.	^{100th} or ^{20ths}	Inches.	Inches.			Inches.	Inches.		Inches.	^{100th} or ^{20ths}	Inches.	Feet.							
KEEL (Riveting)									Double		18	55												
GARBOARD or A Strake ..	45	12	11	11	45	12			"	54	18	38	38	38	7	38	16	15						
B "	54	11	10	9	54	11			"	"	"	"	"	38	7	38	16	15						
C "	54	11	9	9	54	11			"	"	"	"	"	38	7	38	16	15						
D "	46	12	11	10	46	12			"	"	"	"	"	38	7	38	16	15						
E "	54	12	10	10	54	12			"	"	"	"	"	38	7	38	16	15						
F "	46	12	11	10	46	12			"	"	"	"	"	38	7	38	16	15						
G "	54	11	9	9	54	11			"	"	"	"	"	38	7	38	16	15						
H "	46	11	10	9	46	11			"	"	"	"	"	38	7	38	16	15						
J "	54	11	9	9	54	11			"	"	"	"	"	38	7	38	16	15						
K "	46	11	10	9	46	11			"	"	"	"	"	38	7	38	16	15						
L "	48	13	10	10	48	13			"	"	"	"	"	38	7	38	16	15						
M (Pulwarkes) ..	56				56				Single	3			Double	5			8	5						
N "																								
POOP or R. Q. DE. SIDES ..				7		7			"	"	3	3	"	3			9	7						
BRIDGE SIDES									"	"	"	"	"	"										
FORECASTLE SIDES				7		7			"	"	"	"	"	"										
LENGTHS OF PLATING	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. ? *(Siemens Martin Process)*
Francis Halliday, Floors, Dalzell, Mill, Cochrane,
Beams, Dalzell, Cochrane, Lanarkshire.
Keelsons, 80, 80 & Halliday, Dalzell, Lanarkshire.
Tie & Stringer plates, Dalzell, Mill, Cochrane, Lanarkshire.

Butts, treble riveted for *half* length amidship.
 Main Stringer Plate *Straps, single, double or overlapped for whole length amidship*
 Butts of Bilge & Side Stringers and Tie Plates, treble or double riveted? *Double treble*
 Centre Girder Butts, *treble* riveted. Keelsons Butts, *treble* riveted.
 Frames, riveted through Plates with *7/8* in. Rivets, about *6 1/4* apart.
 Rivets, state whether of Iron or Steel *Iron*

FRAMES extend in one length from *Keel* to *Gunwale*
 REVERSED FRAMES on floors and frames extend from *the* middle line to *Gunwale* and to *Forecastle Deck* alternately.

MASTS AND SPARS.										RIGGING.									
MASTS, &c.		MATERIAL.	Total Length.	DIAMETER AND THICKNESS AT—				No. of Plates in Round.	ANGLES.		RIVETING.		MATERIAL.	SHROUDS.		STAYS.			
				Partners.	Heel.	Hounds.	Head.		Num-ber.	Size.	Scams.	Butts.		No.	Size.	No.	Size.		
				Ins.	Ins.	Ins.	Ins.		No.	Inches.					Ins.		Ins.		
LOWER MASTS ..	Fore ..	Steel	95.0	20	20	20	20	2	4	4 1/2 x 3 1/2	Double treble	Double treble	Galv. Steel	6	4 1/2	2	4 1/2		
	Main ..	"	95.6	31 x 10	24 x 8	26 x 8	20 x 7	2	4	4 1/2 x 3 1/2	Double treble	Double treble	"	5	3 3/4	2	3 3/4		
	Mizen ..	"	91.6	30 x 9	23 x 8	25 x 8	20 x 4	2	4	4 x 3 x 9	"	"	"	"	5	3 3/4	2	3 3/4	
	Jigger ..	"	87.6	28 x 9	23 x 8	25 x 7	8 x 5	2	4	4 x 3 x 8	"	"	"	"	5	3 3/4	2	3 3/4	
BOWSPRIT ..	(pole) ..	"	23.10	28 x 9	23 x 8	25 x 7	8 x 5	2	4	4 x 3 x 8	"	"	"	Chain	2	1			
	Fore ..	"	35.9		19 x 7	14 x 6	15 x 6	2	2	4 x 3 x 6	Single	"	Galv. Steel	3	1 3/4	2	4 1/2		
	Main ..	"	44.6		16 1/2 x 6	14 1/2 x 5	13 x 5	2	2	4 x 3 x 6	"	"	"	3	1 3/4	2	3 3/4		
	Mizen ..	"	44.6																
YARDS.	Fore ..	"	34.8	At Centre	20	At Ends	16	2	4	4 x 3 x 6	Single	Double	QUALITY	Good	Walrus				
	Main ..	"	64.8	"	19 x 7	"	9 1/2 x 3	2	4	4 x 3 x 6	Single	Double	The Walrus Co. Ltd.						
	Crossjack ..	"	64.8	"	16 x 6	"	8 x 3	2	4	4 x 3 x 6	"	"	Mannington.						
	Jigger ..	"	64.8	"	16 x 6	"	8 x 3	2	4	4 x 3 x 6	"	"	Certificate herewith.						
TOPSAIL YARDS.	Fore	"	42.9	"	18 x 6	"	9 x 3	2	4	4 x 3 x 6	"	"							
	Main	"	64.8	"	16 x 6	"	8 x 3	2	4	4 x 3 x 6	"	"							
	Lower	"	55.9	"	13 x 5	"	6 1/2 x 3	2	4	4 x 3 x 6	"	"							
	Upper	"	51.10	"	12 x 5	"	6 x 3	2	4	4 x 3 x 6	"	"							
Remainder of Spars	Lower	"	51.6	"	12 x 5	"	6 x 3	2	4	4 x 3 x 6	"	"							
	Upper	"	38.6	"	9 x 3	"	4 1/2 x 3	2	4	4 x 3 x 6	"	"							
	Fore	"	38.6	"	9 x 3	"	4 1/2 x 3	2	4	4 x 3 x 6	"	"							
	Mizen	"	38.6	"	9 x 3	"	4 1/2 x 3	2	4	4 x 3 x 6	"	"							

EQUIPMENT No. 23103 LETTER U.															ANCHORS.					TONNAGE FOR TRAWLERS					U.D.R.	
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQ. PER RULE			Description of Anchor.	Makers.	Where and when tested and Superintendent.									
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.												
35290	1st Bower....	36	3	15	0	0	20	33	15	0	0	36	2	0	Rodgers	H. Hingley & Betherton	14/4/94									
35291	2nd ,,	35	2	12	8	3	13	32	16	3	14	36	2	0	"	Sons	J. G. Lewis, Supl.									
35284	3rd ,,	33	0	15	8	3	4	31	1	1	0	31	0	0	"	"	"									
	Collective weight	105	2	14								104	0	0												
35294	Stream	11	1	22	2	3	19	13	7	2	0	11	1	0	"	"	"									
35292	Kedge	5	2	6	1	1	24	4	18	1	21	5	2	0	"	"	"									

Form 111.

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.									
25068, 25069	240 3/4	1 1/2	94.5 67.5	54	54	270 x 1 1/2	Iron Sunk	Hingley & Betherton Sons.	14/4/94 D. G. Lewis, Super.	TOWLINE HAWSER	240 240	1 1/2 1 1/2	33 26	42 x 35 20 x 17 20 x 34
24182 Iron Steam Chain (on Steel Wire ...)	453	1 1/2	24.0 13.5	44	44	75 x 1 1/2	Short Sunk	"	"	WARP	453	1 1/2	26	90 x 24

Boats 7 No. 3 25 Ft. Life Boat & 4 - 25 Ft. Cutters.
Pumps, Number One pair triple patent Diameter of Barrel and Tail Pipe 6" Barrels - 3 1/2" Tail Pipes.
Windlass is Iron (Emerson Walker & Co's patent) and Capstan Capstan.
Number of Scuppers, and number and dimensions of Freeing Ports Five Scuppers and six Ports. 3 No. 30" x 24" 2 1/2" x 19" 2 No. 23 1/2" x 8".
Ceiling in Holds, thickness and material 2 1/2" Red Pine. Ceiling 'tween Deck, thickness and material 6 1/2" x 2" R.P. Sparring.
Cargo Hatchways.—How formed? Deep plate forming coaming & Carling. Hatches, if strong and efficient? Yes 4" thick.
State size No. 1 Hatch (Forward) 5' 10" x 5' 11". No. 2 Hatch 13' 0" x 4' 11". No. 3 Hatch 5' 9 3/4" x 5' 11".
Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch One Shifting Beam and One Fore and Afters to No. 2 Hatch.
and One Fore and Afters to each of Nos. 1 and 3 Hatches. No. of Breasthooks Five & deep floors.
Bulwarks, height above deck and description: Height 5 ft. 5" deep Main Rail, material and size: 18" x 1 1/2" brass with greenish paint. Topgallant Rail Double Yellow Pine.
The above is a correct description.
Builder's Signature (here only.) J. G. Lewis & Co. Surveyor's Signature J. G. Lewis
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)

M. 1/3 and 2/4/94.
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 or lapped? *Yes*

General Remarks (State quality of workmanship, &c.)
This vessel has been built in accordance with the accompanying approved plans, as amended, and tracing of Midship Section forwarded on the 20th August, for the preparation of the Certificate of Class, and otherwise as required by the Rules. The quality of workmanship and material is good. The pumps are in efficient working order, and the gutterways have been tested by being flooded with water with satisfactory results.

Three reports on Forgings herewith.

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *34* ft. R.Q.D. or Break *—* ft. Bridge Dk. *—* ft. F'castle *41* ft. (in feet and tenths). 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) *2 Dks*

Official No. *104496* ; Signal Letters *—*
How are the surfaces preserved from oxidation? Inside *Portland Cement and Paint* Outside *Paint*
Cement supplied by the Bridge Portland Cement Co. London, and mixed with Holy Loch Sand
Order for Special Survey No. *1723* Date *10th Feb. 1894*
Order for Ordinary Survey No. *—* Date *—*
No. *365* in builder's yard. 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 } *Built under S.S. and Surveyed*
2nd. On the plating during the process of riveting } *Date of First Survey April 20th 1894*
3rd. When the beams were in and fastened, and before the decks were laid } *" Last " August 17th 1894*
4th. When the ship was complete, and before the plating was finally coated or cemented } *" "*
5th. After the ship was launched and equipped } *Total No. of Visits 30*

The amount of Entry Fee £ *4* : : Fees applied for, *18. 8. 18. 94*
Special Survey Fee £ *68* : *3* : Received by me, *21. 8. 18. 94*
Travelling Expenses, if any £ : : *F. B. Jones*
I am of opinion this Vessel should be Classed *✱ 100 A1 "Steel"* Certificate to be sent to *Greenock*
With, ~~or without~~ Freeboard, as condition of Class *J. J. Horrel*
Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute *FRIDAY 24 AUG 1894*
Character assigned *100 A1 Steel*
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 100 A1 ("Steel") as recommended.
2 A + CP 2 Dks
+ 100 A1 ("Steel")
2 Dks
Comm.
(u)
23/8/94
C. A. J.
23/8/94
attache
The Surveyors are requested not to write on or below the Committee's Minute.
Hull Certificate Written.
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