

With or Without  
Disconnected Erections.

STEEL STEAMER.

Received at London Office

THU. 24 APR. 1924

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

Date of completion of report 19<sup>th</sup> April 1924  
Survey held at *Dumbarton*

Port of *Glasgow*  
Date, First Survey 28<sup>th</sup> Feb'y. 1923

No. 43539  
Last Survey 12<sup>th</sup> April 1924

On the (State if Single, Twin or Triple Screw) *Single Screw Steamer*

*BIRCHTON*

Rig 2 mast no sail

TONNAGE under 1373.54  
Tonnage Deck...  
Do. between Tonnage Dk. and 3rd and 4th Dk. 5.77  
Do. of R.Q.Dk. 182.82  
Do. of Bridge House 42.00  
Do. of Forecastle 85.72  
Do. of House on Dk. 42.62  
Do. of excess of Deck above Crown of Engine Room 1732.49  
Gross Tonnage 71.44  
Less Crew Space 1732.49  
Less above Crown of Engine Room 554.40  
TONNAGE FOR FEES 101.12  
Less Engine Room  
Less Navigation Spaces  
Register Tonnage 1005.53  
as cut on Beam

CLASS 8 100 A1 for service on the Great Lakes and River St. Lawrence  
Breadth (greatest moulded) 43.0  
Depth, at middle of length from top of keel to top of upper deck beams at side 17.5  
Transverse Number 60.5  
Length on deck from fore part of stem to after part of stern post 250.0  
Longitudinal Number 15125  
Depth "d," at middle of length (See Secs. 2 & 13) 14.83  
Proportions—Depths to Length—Upper Deck Beam at side to top of keel 14.28  
" " Long Bridge Deck Beam at side to top of keel

Master  
Year of appointment (1) As Master in service of owner of present vessel—19 (2) As Master of this vessel—19  
Built at *Dumbarton*  
When built 1924 Launched 21.2.24  
By whom built *A McMillan & Co.*  
Owners *The Matheson S.S. Co. Ltd.*  
Managers *A. E. Mathies*  
(Where necessary to be entered in Reg. Book.)  
Residence  
Port belonging to *Glasgow*

Destined Voyage *Great Lakes* If Surveyed while Building, Afloat, or in Dry Dock *yes*

LENGTH on Deck as per Rule	Feet.	Inches.	BREADTH—Moulded	Feet.	Inches.	DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams	Feet.	Inches.	No. of Decks with flat laid
250	0		43	0		Do. do. do. do. Second Dk. Beams	15	8	one

Dimensions of Ship per Register, Length 250 breadth 43.2 depth 15.5 Moulded depth, ft. 17 ins. 6 To Bridge Dk. Round of Upper Dk. Beam, Actual 10 1/2 ins.

FRAMING.							PILLARS.							Inches, Size in Ship.		Inches, Spacing in Ship.		Inches, per Rule, Or as		Inches, per Rule, Approved.	
In way of Quarter deck																					
FRAME, Angles, or Bars amidships	7 1/2	3	3	3	3	3	PILLARS In 'tween Deck, size and spacing														
Do. in peaks	5	3	3	3	3	3	" " Hold														
Do. in way of Double Bottoms at Solid Floors	3	3	3	3	3	3	" " Quarter 'tween Dks.,														
" " " at intermdt. Bkts.	6 1/2	3	3	3	3	3	" " in Hold														
Spacing of Frames from centre to centre amidships							24														
" " " from 1/2 length to Collision bulkhead	24	21	24	21	24	21	KEELSONS & STRINGERS.														
" " " in peaks	18	18	18	18	18	18	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate														
REVERSED FRAME, Angles	3	3	3	3	3	3	" Rider Plate														
Do. in way of Double Bottoms at Solid Floors	3	3	3	3	3	3	" Flat Plate Keel Angles														
" " " at intermdt. Bkts.	6	3	3	3	3	3	" Horizontal Plates on Floors														
FRAMING, depth of girder	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	" Angles or Bulb Angles														
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships							SIDE KEELSONS, Number														
" in way of Engine and Boiler Spaces							" Angles or Bulb Angles														
" thickness at the ends of vessel							" Plate above floors, for length														
" depth at 1/2 the half breadth, as per Rule							" Intercoastal Plate, for length														
" height extended at the Bilges							" Attached to outside Plating with Angle														
FLOORS in Cell. Double Bottoms	30	30	30	30	30	30	BILGE KEELSON, Angles														
" state if flanged (top & bottom)	48	48	48	48	48	48	" Intercoastal Plate for length														
" Spacing of Solid floors	36	40	36	40	36	40	" Attached to outside Plating with Angle														
CENTRE GIRDER, in Dbl. bottom, dpth. & thknss.	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	SIDE STRINGERS, Number 2 in fore and 7 fore hold in profile														
" Angles, Top	4	4	4	4	4	4	" Angle							5	3	30	5	3	30		
" Bottom	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	" Intercoastal Plate, for length							36	36	36	36				
" to Floors	30	30	30	30	30	30	" Attached to outside plating with Angle							flanged	flanged	flanged	flanged				
Brackets at intermdt. frmg., wdth & thknss	one	30	one	30	one	30	Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge)							84	66	84	66				
SIDE GIRDERS, number on each side & thickness	one	30	one	30	one	30	" " " " (br'dth & thickness) (in way of Bridge)							5 x 5	66	5 x 5	66				
" state if flanged (top and bottom)	3	3	3	3	3	3	" " " " Angle (clear of Bridge)														
" Angles (top and bottom)	3	3	3	3	3	3	" Tie Plate at sides of Hatchways														
" to Floors	3	3	3	3	3	3	Deck, * Iron or Steel, for full lng.								25		25				
MARGIN PLATE, depth (exclusive of flange) and thickness	36	34	36	34	36	34	" Thickness (clear of Bridge)														
" Angle to Outside Plating	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	" (in way of Bridge)														
" Floors	3	3	3	3	3	3	Wood Deck, Material & thickness														
Brackets at intermdt. frmg., wdth & thknss	42	30	42	30	42	30	QUARTER Second Deck Stringer Plate, br'dth & thickness							84	44	84	44				
Height of Outside Brackets above at bilge	30	See M.O. Sec.	30	30	30	30	" Angles on ditto, No.							3 1/2 x 3 1/2	48	3 1/2 x 3 1/2	48				
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	40	48	40	48	40	48	" Tie Plates outside Hatchways														
" in Engine and Boiler space	ES. 38 BS. 48	ES. 38 BS. 48	ES. 38 BS. 48	ES. 38 BS. 48	ES. 38 BS. 48	ES. 38 BS. 48	Deck, * Iron or Steel, for full lng.								25		25				
" Remainder in Holds	42	42	42	42	42	42	Wood Deck, Material & thickness														
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	5	3	40	5	3	40	Third Deck Stringer Plate, br'dth & thickness														
" In way of Long Bridge	5	3	38	5	3	38	" Angles on ditto, No.														
" Spacing	24	24	24	24	24	24	" Tie Plates, outside Hatchways														
BEAMS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	5	3	40	5	3	40	Deck, * Material and thickness														
" Spacing	24	24	24	24	24	24	Fourth and Fifth Deck Stringer Plate, breadth & thickness														
BEAMS, Third and Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	5	3	40	5	3	40	" Angles on ditto, No.														
" Angles on upper edge							" Tie Plates outside Hatchways														
" Spacing	24	24	24	24	24	24	Deck, Material & thickness														
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	5	3	40	5	3	40	Poop Deck Stringer Plate, breadth & thickness														
" Angles on upper edge							" Angle on ditto														
" Spacing	24	24	24	24	24	24	" Tie Plates														
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	5	3	40	5	3	40	Deck, Material and thickness														
" Angles on upper edge							Bridge Deck Stringer Plate, br'dth & thickness														
" Spacing	24	24	24	24	24	24	" Angle on ditto														
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	5	3	40	5	3	40	" Tie Plates														
" Angles on upper edge							Deck, Material and thickness														
" Spacing	24	24	24	24	24	24	Forecastle Deck Stringer Plate, br'dth & thickness							67	35	67	35				
							" Angle on ditto							3 1/2 x 3 1/2	44	3 1/2 x 3 1/2	44				
							" Tie Plates														
							Deck, Material and thickness							35	6	30	35	6	30		



WEB FRAMES. In Fore Body, No. and spacing 9 See approved profile. brdth. & thickness 19 1/2 35 23 35. No. of Side Stringers 1 held only (2) 36 (2) 36. WEB-FRAMES, In E. & B. Space, No. & spacing 1 35 23 35. WEB-FRAMES, In After Body, No. and spacing See above (Engine aft). brdth. & thickness 4 1/2 4 1/2 x 62 4 1/2 x 43 x 62. No. of Side Stringers 4 1/2 4 1/2 x 62 4 1/2 x 43 x 62. Size of Face Angles to Web-Frames 4 1/2 4 1/2 x 62 4 1/2 x 43 x 62. BRACKET PLATES to Stringers between Web Frames, depth and thickness. FORGINGS OR CASTINGS. KEEL, Bar, depth and thickness 7/8 x 1 1/2. STEM, moulding and thickness 7 x 2. STERN-POST for Rudder do. do. 7 x 5 1/2. for Propeller 7 x 5 1/2. RUDDER-A x D Table 22. Speed Under 10 K. A x D 208. Main-Piece, diameter at head 7 3/8. at heel 7. RUDDER, how constructed Forging and Single Plate. Thickness of Plates or Single Plate 1". Can the Rudder be unshipped afloat? Yes. 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, Plating, &c.? Open heart process. D. Colville & Son, Clydebridge, Glasgow. Has the Steel been tested as required by the Rules? Yes. PLATING. STRAKES. AS IN SHIP. PER RULE OR AS APPROVED. EDGES. BUTTS. STRAPS. IF LAPPED. FLAT PLATE KEEL 43 60 50 50 43 60 Double 7/8 5 1/4 3 3/4. GABBOARD OR A Strake 46 42 40 46 46 42 40. B 46 38 40 46 46 38 40. C 46 38 40 46 46 38 40. D 62 5 38 44 62 5 38 44. E 62 5 38 44 62 5 38 44. F 46 38 38 46 46 38 38. G 46 38 38 46 46 38 38. H 52 66 38 38 52 66 38 38. J 64 50 36 64 50 Double 7/8 5 1/4 3 3/4. K 7/8 5 1/4 3 3/4. L 7/8 5 1/4 3 3/4. M 7/8 5 1/4 3 3/4. N 7/8 5 1/4 3 3/4. O 7/8 5 1/4 3 3/4. P 7/8 5 1/4 3 3/4. Q 7/8 5 1/4 3 3/4. R 7/8 5 1/4 3 3/4. S 7/8 5 1/4 3 3/4. T 7/8 5 1/4 3 3/4. U 7/8 5 1/4 3 3/4. V 7/8 5 1/4 3 3/4. W 7/8 5 1/4 3 3/4. THICKNESS OF STRAKE CLEAR OF LONG BRIDGE DO. OF STRAKE BELOW DBLG. OF Flat Plate Keel at break of raised quarter deck as approved. POOP SIDES 34 34 Single 2 1/2 3/4 3. SHORT BRIDGE SIDES 34 34 Single 2 1/2 3/4 3. FORECASTLE SIDES 34 34 Single 2 1/2 3/4 3. MASTS, SPARS, &c. Fore Mast 54.6 20 x 35 20 x 35 14 x 30. Main Mast 52.6 20 x 35 20 x 35 14 x 30. Mizzen Mast 52.6 20 x 35 20 x 35 14 x 30. Bowsprit 14 x 30 6 x 4 x 30. Topmasts, Yards and Remainder of Spars 14 x 30 6 x 4 x 30. Rigging, Material and Size, Shrouds 2 3/4. Sails, Suit of 2 3/4. Sails, and the following spare sails 2 3/4.



EQUIPMENT No.				LETTER				ANCHORS.				TONNAGE U.D.K. OR PLATING No. FOR TRAWLERS					
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 31.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.			
57749	1st Bower ...	33	1	18	Slackless			31	3	0	14	33	0	0	Jaylors Headmoult	S. Taylor & Son	Dipton 12.3.23 byedale
57430	2nd „ ...	33	0	14	do			30	19	1	14	33	0	0	do do	do	do 5.3.23 do
	3rd „ ...																
	4th „ ...																
	Collective weight.	66	2	4	/							66	0	0	/		
38195	Stream .....	8	2	20	2	0	24	10	15	0	0	8	2	0	Fellows Bros. Ltd Ordinary	Fellows Bros Ltd	Cradley Heath 17.5.23 Paul
	Kedge.....																

U Patent state Name of Patentee

Slackless, state Mechanical Tests.

Particulars of Drop Test of Cast Steel Anchors, viz. :—  
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower } Heads & Shank forged open heart Ingot Steel,  
2nd " }  
3rd Stream } forged iron,  
4th " }

#### CHAIN CABLES.

#### HAWSERS AND WARPS.

Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and Size per Table 31.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material	Length and Size supplied.		Breaking Test of Steel Wire Towline.	Length and Size per Table 31.	
	Length.	Diam.	Statutory.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.			
	Fathoms.	Ins.	Tons.	Tons.	Cwts. qrs. lbs.	Cwts. qrs. lbs.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
34688	210	1 11/16	5 1/4	7 3/4	302.3.14	301.2.12	210	1 11/16	Stud	Fellows Bros. Ld.	Crabby Heath 17.5.23 Paul	TOWLINE SW	90	3 1/2	26	90	3 1/2
												HAWSERS SW (2)	90	2 3/4	15 1/2	(2) 90	2 3/4
												" SW (2)	90	2 3/4	9 1/2	(2) 90	2 3/4
												" SW (2)	90	1 3/4	5 1/2	(2) 90	1 3/4
Iron Stream Chain or Steel Wire	75	Cir. 3 1/2		26			75	Cir. 3 1/2	S.W.	Ryland Bros		Manila (2)	90	3 1/2			

Boats 2 Lifeboat  
Pumps, Number One downlon  
Windlass is Steam by Emerson Walker  
Engine Room Skylights.—How constructed? Steel  
Coal Bunker Openings.—How constructed? Steel & Spiral Covers  
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. In Quarter & Fore (2) 42" x 18" each side  
Ceiling in Holds, thickness and material No Ceiling  
Cargo Hatchways.—How formed? Steel plate & angles  
State size No. 1 Hatch (Forward) 12' 0" x 29' 0" No. 2 Hatch 12' 0" x 29' 0" No. 3 Hatch 12' 0" x 29' 0" No. 4 Hatch 12' 0" x 29' 0"  
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch 3 Steel fore & aft web & 1 thwartship beam  
No. of Breasthooks 4 inch decks No. of Crutches deep floor  
Bulwarks, height above deck and description 8 inch bulwark round stern & abreast Main Rail, material and size Open rails elsewhere  
The foregoing is a correct description.  
Builder's Signature (here only) ARCHE McWILLAN & SON, LTD.  
Surveyor's Signature J. M. Shewna  
Surveyor to Lloyd's Register of Shipping.

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

21.12.22, 23.12.22, 28.12.22, 17.1.23, 22.1.23, (27.1.23) 6.2.23, 10.5.23, 14.5.23, 17.5.23.

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? Name dogged  
to plate, &c., conform well to each other? Yes  
from the faying surfaces? Yes  
Do the holes for riveting plate to frames, butt straps, or plate  
Are the rivet holes well and sufficiently countersunk in the plate and punched  
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

Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? Yes State results of tests Satisfactory

Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? Yes State results of tests Satisfactory

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

This vessel has been built in accordance with the approved plans The Secretary's letter, and in accordance with the Rules for the Class contemplated

4 Foying Reports and plan of midship section as vessel built are enclosed, The approved plan of the vessel are at present on the London Office

100 A1 In service on the Great Lakes and River St. Lawrence,  
3 watertight bulkheads, also 2 intermediate bulkheads in hold (lower parts watertight).  
Cargo bottom not fitted  
Sister vessel S.S. Oakton Gls. Rept. No. 42717 S.S. Cedarlon Gls. Rept. No. 43538  
The Surveyor should state the Number of Report and Name of any Sister Vessel.  
Plans to be forwarded with F.E. Report showing vessel as built. old from Oakton

The amount of Entry Fee ..... £ 5 : 0 : 0  
Special Survey Fee.... £ 161 : 12 : 0  
Travelling Expenses, if any £ 6 : 9 : 0  
State whether the Vessel has been built under Special Survey Yes  
I am of opinion this Vessel should be Classed 100 A1 For service on the Great Lakes & River St. Lawrence  
With, or without Freeboard, as condition of Class with  
Fees applied for, 15/4/1924  
Received by me, 22/4/1924  
Hull Certificate to be sent to Glasgow  
Date of issue 8/5/24.  
J. M. Shewna  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 23 APR 1924.  
Character assigned 100 A1 with freeboard  
For service on the Great Lakes & River St. Lawrence  
Lloyd's A+C.P.  
+ LMC 4, 24.  
Cargo battens not fitted.



GENERAL REMARKS—(continued).

**PARTICULARS FOR RECORD in the REGISTER BOOK.**—Length of Poop ☒ ft., R.Q.D. 92 ft., Bridge ☒ ft., Forecastle 36.33 ft.  
(in feet and tenths). When the Poop 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) one de steel mech. app.  
Official No. 147893; Signal Letters \_\_\_\_\_ State if Machinery is fitted aft Yes  
How are the surfaces preserved from oxidation? Inside (Cement wash) inside double bottom Outside Paint  
Paint checkers

**PARTICULARS OF WATER BALLAST.**—State whether the Double bottom is constructed on the cellular system or with girders on floors Cellular

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,		
Double bottom, under Engines and Boilers,	<u>40.0</u>	<u>91 tons</u>	After peak tank,		
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,	<u>170.0</u>	<u>508 "</u>	Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
	Total capacity of double bottom	<u>599.</u>	(If necessary, furnish further information by sketch.)		

\* The wells are not to be included in the lengths of the tanks. (210)

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

Order for Special Survey No. 5545

Date 17.2.1923

No. 489 in builder's yard.

DATES OF SURVEYS held while building

1923 Feb 28, Mar 9, 15, 20, 26, 30 Apr 3, 6, 12, 17, 20, 23, 27, 30 May 2, 8, 11, 15, 22, 25, 30 Jun 5, 8, 12, 15, 22, 25  
Jul 5, 10 Aug 3, 21, 31 Sep 6, 15, 27 Oct 5, 12, 18, 26 Nov 6, 14, 19, 26 Dec 4, 7, 11, 13, 18, 20, 24 1924 Jan 8  
11, 15, 18, 23, 28, 31 Feb 5, 21 Mar 4, 25 Apr 3, 12

Total No. of Visits 63

Surveyor's Signature

J. W. H. H. H. H. H.

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