

STEEL STEAMER

~~MOTORSHIP~~

Received at London Office

24 SEP 1924

State if Report has been sent on the Freeboard of the Vessel *Yes*State if Report is sent on the Machinery of the Vessel *Yes*Date of completion of report *20th September 1924*Port of *Glasgow*No. *43999*Survey held at *Paisley*Date First Survey *20th March*Last Survey *17th September 1924*On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) *(Machinery) Single Screw - "CROMARTY FIRTH."*State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *FULL SCANTLING.*

State Type of Erections

*RAISED 2nd DECK
SHORT BRIDGE & FUL*TONNAGE under Tonnage Deck... *253.61*CLASS *+100A1.*State if with freeboard as condition of Class *No.*Built at *Paisley*Do. of space or spaces between Tonnage Dk. and Upper Dk. *✓*Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) *135*Launched *2nd Sept 1924*Yard No. *404*Total *253.61*Breadth (greatest moulded) *24*Builders *Bros. McLachlan & Co. Ltd.*Gross Tonnage *377.41*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *10.45*Owners *The Firth Shipping Co. Ltd.*Register Tonnage *142.9*1st Longitudinal Number (L x D) = *1451*Managers *(G. J. Lillie & Blair & Co.)*

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

2nd Numeral L x (B + D) = *4691*

REGISTERED DIMENSIONS.

FEET.

Length *135.9'*Framing Depth "d," at middle of length. See Sec. 3 (1d) *10.23*Residence *4 Lombard Street
Glasgow*Breadth *24.1'*Proportions—Depth to Length—Upper *12.55*Port of Registry *Glasgow*Depth *9.45'*Do. Long Bridge to top of keel *9.64*

If surveyed while building, afloat, or in dry dock

Building.

FRAMES, {DOUBLE BOTTOM AND BEAMS.

AT FORE END OF HOLD ONLY

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships		✓	Bracket Flange, Frame		✓
" " from $\frac{1}{2}$ length to Collision bulkhead	<i>21"</i>	✓	" " Reversed Frame		✓
" " in peaks		✓	" " Vertical Strake		✓
SIDE FRAMING.			Centre Girder, depth and thickness amidships	<i>29 x 31</i>	✓
Frame Amidships, <i>40.4 2 1/2 30</i>		✓	" " top Angles	<i>3 3 32</i>	✓
" " Extends up to <i>dk.</i>		✓	" " bottom Angles	<i>3 1/2 3 1/2 34</i>	✓
Reversed Frame Amidships, Angle <i>2 1/2 2 1/2 28</i>		✓	Side Girders, No. each side and thickness	<i>one 29</i>	✓
" " Extends <i>Across top of floor</i>		✓	Margin Plate depth (excl. of flange) and thickness	<i>LEVEL 30</i>	✓
Depth of Framing Girder <i>4"</i>		✓	" " Vertical Angle to Tank side	<i>To SHIPS SIDE</i>	✓
<i>Frames in Uppermost Continuous Deck</i>		✓	Bracket abaft $\frac{1}{2}$ len. from stem		✓
" " <i>Second Deck</i>		✓	" " Horizontal Vertical Angle to Tank side	<i>2 1/2 2 1/2 28</i>	✓
" " <i>Third Deck</i>		✓	Bracket forward $\frac{1}{2}$ len. from stem		✓
" " <i>Fourth Deck</i>		✓	" " Girders, spacing and scantling		✓
" " <i>Fifth Deck</i>		✓	abaft $\frac{1}{2}$ len. from stem		✓
" " <i>Sixth Deck</i>		✓	" " Girders, spacing and scantling		✓
" " <i>Seventh Deck</i>		✓	forward $\frac{1}{2}$ len. from stem		✓
Framing in Peaks, <i>4 2 1/2 28 4 2 1/2 26</i>		✓	Tank Side Brackets, height above base line at toe of Frame and thickness	<i>50' x 28</i>	✓
Diameter and Spacing of Rivets through Shell Plating <i>5/8 @ 4 3/4 5/8 @ 5 1/4</i>		✓	INNER BOTTOM PLATING.		
State if Frame Joggled	<i>Yes.</i>	✓	Breadth and thickness of Middle Line Strake	<i>48 x 30</i>	✓
PANTING ARRANGEMENTS (Sec. 7), state system and particulars <i>For peak tank top in peak + bracket off of same in hold to bottom of 1st deck</i>		✓	Thickness of remainder in Holds	<i>28</i>	✓
STRENGTHENING OF BOTTOM FORWARD. State Particulars <i>add bolts and double rule position of C.B. 47</i>		✓	Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. spaces and framing in Bunkers and Boiler Room?	<i>Yes.</i>	✓
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	<i>15 1/2 x 28</i>	✓	Upper <i>continuous</i> Deck, amidships in Well Angle, <i>dk.</i>	<i>4 1/2 3 32</i>	✓
Height of Brackets at side above base line at toe of frame	<i>No Brackets</i>	✓	" " in way of Bridge, Angle, <i>dk.</i>		✓
Middle Line Keelson, on Floors, Angles, <i>double</i>	<i>3 1/2 3 39</i>	✓	Spacing	<i>21</i>	✓
" " Through Plate	<i>18 1/2 x 31</i>	✓	<i>R.R.</i> Deck, amidships, Angle, <i>dk.</i>	<i>4 1/2 3 32</i>	✓
" " Intercoastal Plate		✓	Spacing	<i>21</i>	✓
" " Flat Plate Keel Angles	<i>3 1/2 3 1/2 34</i>	✓	<i>Third Deck, amidships, Angle, <i>dk.</i></i>		✓
Side Keelsons, No. each side	<i>one</i>	✓	Spacing		✓
" " thickness of Intercoastal Plate	<i>29</i>	✓	<i>Fourth Deck, amidships, Angle, <i>dk.</i></i>		✓
" " Angles <i>double</i>	<i>3 1/2 3 31</i>	✓	Spacing		✓
DOUBLE BOTTOM. AT FORE END OF HOLD ONLY.			<i>Fifth Deck, amidships, Angle, <i>dk.</i></i>		✓
Solid Floors, thickness and spacing	<i>28 x 21</i>	✓	Spacing		✓
" " Are Frame and Reversed Frame joggled?	<i>Yes.</i>	✓	Bridge Deck, Angle, <i>dk.</i>	<i>5 2 1/2 28</i>	✓
Bracket Flange, breadth and thickness at middle line		✓	Spacing	<i>42</i>	✓
" " breadth and thickness at margin line		✓	Forecastle Deck, Angle, <i>dk.</i>	<i>5 2 1/2 28</i>	✓
" " "		✓	Spacing	<i>42</i>	✓

PILLARS AND DECKS.

	INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.	
PILLARS, No. of Rows.....			✓	
„ in 'tween Decks, Size and Spacing.....	Deep		✓	
„ „ „ „ „	Brackets in		✓	
„ in Holds „ „	Two of Pillars		✓	
„ „ „ „ „	at Hatch sides		✓	
Center Line Bulkhead.	and			
Stiffeners and Spacing	2 1/2" as per plan		✓	
Plating, thickness of	as approved		✓	
STRINGERS AND DECKS.				
Uppermost Continuous Deck.				
Stringer Plate, breadth and thickness in Well	ford. 54 x 40	✓	✓	
„ „ „ „ in way of Bridge	„ 50	✓	✓	
„ Angle in Well	forward. 3 1/2 3 1/2 40	✓	✓	
Thickness of Plating abreast Deck openings in way of Wells	Stringer	✓	✓	
Thickness of Plating abreast Deck openings in way of Bridge	plate full width	✓	✓	
If Sheathed, material and thickness	to Hatch side	✓	✓	
R.R. Second Deck.				
Stringer Plate, breadth and thickness in Well	apf. 66 x 38	✓	✓	
„ „ „ „ „	3 3 40			
Stringer Plate, breadth and thickness in way of Bridge				
Thickness of Plating abreast Deck openings in way of Wells				
Thickness of Plating abreast Deck openings in way of Bridge				
If Sheathed, material and thickness				
Third Deck.				
Stringer Plate, breadth and thickness			✓	
If Plated, state thickness			✓	
Fourth Deck.				
Stringer Plate, breadth and thickness			✓	
If Plated, state thickness			✓	
Fifth Deck.				
Stringer Plate, breadth and thickness			✓	
Plating, Sheathing, material and thickness			✓	
Bridge Deck.				
Stringer Plate, breadth and thickness	25 x 24	✓	✓	
If Plated, state thickness	6 x 24	✓	✓	
Forecastle Deck.				
Stringer Plate, breadth and thickness	13 x 24	✓	✓	
If Plated, state thickness	6 x 24	✓	✓	
Plating, Sheathing, material and thickness	p.p. 2 1/2"	✓	✓	

SHELL PLATING.

SCANTLINGS.						RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if joggled? <i>ordinary</i>			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.	
FLAT PLATE KEEL	<i>3 1/4</i>	<i>.42</i>	<i>.38</i>	<i>.38</i>	<i>✓</i>	<i>double</i>	<i>3/4</i>	<i>3</i>	<i>Three</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Lapped</i>
" Bene. (H ally)					<i>✓</i>	<i>single</i>						
BOTTOM PLATING, No. } <i>AB</i> of Strakes }	<i>54</i>	<i>.32</i>	<i>.28</i>	<i>.28</i>	<i>✓</i>	<i>"</i>	<i>5/8</i>	<i>2 5/8</i>	<i>Two</i>	<i>5/8</i>	<i>2 1/4</i>	<i>"</i>
BILGE PLATING, No. of } Strakes }	<i>51 1/2</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>✓</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
SIDE PLATING, No. of } Strakes }	<i>51 1/8</i>	<i>.36</i>	<i>"</i>	<i>"</i>	<i>✓</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
UPPER DECK, Sheer- strake in Well <i>fine</i>	<i>51 3/4</i>	<i>.40</i>	<i>.28</i>	<i>.28</i>	<i>✓</i>	<i>"</i>	<i>3/4</i>	<i>3</i>	<i>Three</i>	<i>3/4</i>	<i>2 5/8</i>	<i>"</i>
Upper Deck, Sheer- strake in Bridge ...	<i>Midship thickness of A & B strakes</i>											
STRAKE BELOW SHEER- strake in Wells.....	<i>Maintained to Rule position of</i>											
STRAKE BELOW SHEER- strake in Bridge	<i>Collision Bulkhead.</i>											
<i>PAD</i> <i>F</i> POOR SIDE PLATING	<i>40 1/2</i>		<i>.34</i>	<i>✓</i>	<i>✓</i>	<i>single</i>	<i>5/8</i>	<i>2 5/8</i>	<i>Two</i>	<i>5/8</i>	<i>2 1/4</i>	<i>"</i>
BRIDGE SIDE PLATING...	<i>.25</i>				<i>✓</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
FOREC'TLE SIDE PLATING		<i>.25</i>			<i>✓</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—										
Extending to Upper Deck (Sec. 3 c)				31						
" Deck next below				31						
As per Rule				31						
				Plating Thickness.	STIFFENERS.					
					VERTICAL.			HORIZONTAL.		
					Scantlings.	Spacing.	Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Between Decks ...										
"	"	"								
"	"	"								
"	"	"								
"	"	"								
"	"	"								
"	"	"								
"	"	"								
"	"	"								
"	"	"								
Holds			40/30-26	B.9.	6x3x34	30	-	-		
(in Hold)			34/30-28	ANGLE	6x3x36	24	Tank top ply.			
AFTER PEAK			34/30	B.9.	5x3x34	24	Hor plate .25	in peak.		

FORGINGS ~~and~~ CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar		<i>Flat plate keel.</i>		
STEM		<i>rolled steel bar 6 x 1 1/8</i>	<i>Scottish Iron Co.</i>	<i>5 3/4 x 1 1/8</i>
STERN FRAME {	Propeller Post	<i>forging 5 1/2 x 2 3/4</i>	<i>Emerson Walker</i>	<i>✓</i>
	Rudder "	<i>forging 5 1/4 x 2 3/4</i>	<i>Thompson & Co.</i>	<i>✓</i>
RUDDER—A x D		<i>69.83.</i>		<i>✓</i>
Speed of Vessel		<i>under 10 knots</i>		<i>✓</i>
RUDDER mainpiece at head ...		<i>forging 4 1/4</i>	<i>do.</i>	<i>✓</i>
		<i>3 1/4</i>		<i>✓</i>
" " heel ...		<i>"</i>		<i>✓</i>
" " how constructed		<i>"</i>	<i>with arms shrunk & keyed.</i>	<i>✓</i>
" double or single plate		<i>single</i>		<i>✓</i>
" coupling, vertical or				
" horizontal		<i>horizontal</i>		<i>✓</i>

STEEL.

Manufacturer's name or trade mark of the Steel used in the construction of the Vessel (state process of manufacture) *(Open-hearth process)*
Wm Beardmore & Co Ltd Lanarkshire Steel Co.

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

24 SEP 1924

EQUIPMENT No. 5187

LETTER E

ANCHORS.

Number of Certificate.	Anchor.	WEIGHT, EX. STOCK	WEIGHT OF STOCK	TEST, PER CERTIFICATE	WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
38992	1st Bower ...	Cwts. qrs. lbs. 8 2 18	Stockless	Tons. cwt. qrs. lbs. 10 15 0 0	Cwts. 8 1/4 stockless	Pertuis Type	Not stated	Cradley Heath 25/10/23
38991	2nd " ...	8 1 20	do.	10 10 0 0	8 1/4 do.	do.	"	S. Paul.
	3rd " ...							
	Collective weight.	17 0 10			16 1/2 Rule.			
39037	Stream	2 3 18	- 2 26 5 7 2 0		2 3/4 ex. stock	Ordinary	"	do.

CHAIN CABLES.

HAWSERS AND WARPS.

Number of Certificate.	Length and size supplied.	Test per Certificate.	WEIGHT OF CHAIN CABLE.	Length and Size per Table 53.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.	Breaking Test of Steel Wire.	Length and Size per Table 53.
4/02	165' 15/16"	25% 15%	76-2-20	74 1/2	Stud link	Woodhouse Bros.	Ketherton 27.9.23 H. Green.	TOWLINE	75' 2 1/2"	12 1/2	75' 2 1/2"
								HAWSERS & WARPS	90' 1 1/4"	5 1/2	90' 1 1/4"
Stream (Steel Wire)	45' 2 1/4"	9 1/2			S.W.	A. Thomson	Blackrbo.				

Steering Gear, Steam & Hand (Combined) by Brown & Lachlan & Co. (3x4)

Steering Gear, Hand

Liller, Blocks and Tackles.

Boats 2 Lifeboats & dinghy. (16') (12')

Steering Chains, Size and Test

9" T.C.R.L. 3.15.0.0. 12' 5" 4.12.2.0

Windlass

Steam by Clark Chapman & Co. (6x3)

Ceiling in Holds, thickness and material

2 1/2 white pine.

Cargo Battens, thickness, material and spacing

2" white pine. 9" spacing.

Cargo Hatchways. (Upper Deck)

Steel plates and angles

Thickness of Hatches

2 1/2"

Size of No. 1 Hatchway (Forward)

41' 3" x 15' 0"

No. 2

No. 3

No. 4

No. 5

No. 6

Number of Shifting Beams and/or Fore and Afters

None shifting beams. No fore and afters.

J.W. M'LACHLAN & CO., LTD.

Builder's Signature

A. Macleod (Manager)

GENERAL DECLARATION

This vessel has been built in accordance with the approved plans, instructions and printed Rules of the Society for the class contemplated. The materials and workmanship are good.

Freeboard verified and marks "cut in" on vessels side. Hand pump tested.

Fore and after peak, and double bottom tanks tested by water-pressure

Weather decks and bulkheads hose tested and found in order

2. Forging certificates, and the following approved plans are forwarded herewith:-

(1) Profile & Deck Plan.

(6) Scheme of rivetting.

(2) Midship Section.

(7) Pumping Arrangement.

(3) Sternpost and Rudder

(8) Midship Section (as built.)

(4) Bulkhead Plan.

(9) Planing Arrangement & Strengthening of Bottom forward.

(5) Hatch Plan.

The amount of Entry Fee

£ 3 : 0 : 0

Fees applied for,

23/9/1924.

Special Survey Fee....

£ 37 : 14 : 0

I am of opinion the Vessel should be Classed

+100A1.

FREEBOARD FEE.

Drawing Expenses, if any £

3 : 0 : 0

Received by me,

23/9/1924

State whether the Vessel has been built under Special Survey

Yes.

Signature

A. Macleod.

Surveyor to Lloyd's Register of Shipping.

Hull & Machinery

Certificates to be sent to

Glasgow

Date of issue

18/10/24

Committee's Minute

GLASGOW

23 SEP 1924

Character assigned

+100A1

9.24.

Lloyd's A.R.C.P.

+L.M.C. 9.24.



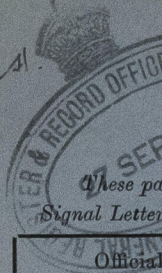
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Lloyd's Register Foundation

W1624-0022 1/2

GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

Rpt. 4



147,92

No., Date, and

Whether British or Foreign Built

British

Number of

Number of

Rigged

Stern

Build

Galleries

Head

Framework

vessel

Number of

Number of

and their

Total to quarter to bottom

No. of sets of Engines.

One

No. of Shafts.

One

Under Tonnage

Space or space

Turret or Turret

Forecastle

Bridge space

Poop or Breast

Side Houses

Deck House

Chart House

Spaces for m

Section 78

1894

Excess of H

Gross

Deductions,

Reg

NOTE 1.—The

pro

NOTE 2.—The

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

1st Bower

2nd "

3rd "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop $8\frac{1}{2}$ ft., R.Q.D. $49\frac{1}{4}$ ft., Bridge $8\frac{1}{2}$ ft., Forecastle $22\frac{1}{2}$ ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks and No. of tiers of Beams (this information is to be given as it should appear in the Register Book)

one dk (old)

Official No. ; Signal Letters

If bottom of Vessel has been coated Inside *yes* give

particulars of composition *Cement & paint.*

PARTICULARS OF WATER BALLAST.—

Where Fitted. *	*Length.	Water Capacity.	Where Fitted.	*Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,			Fore peak tank,	✓	29.5
Double bottom, under Engines and Boilers,			After peak tank,	✓	20.88
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	14	14	Other tanks, if fitted,		
Total capacity of double bottom			(If necessary, furnish further information by sketch.)		
* The wells are not to be included in the lengths of the tanks.					

Order for Special Survey No. *5373*

Date *23 6 1923*

Dates of Surveys held while building

1924 Mar 20 Apr 15-22-30 May 5-8-19-27 Jun 4-10-20 July 9-14-18-24-28 Aug 20 Sep 1-2-4-8-11-12

Total No. of Visits *24*

Date of Te

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