

## STEEL STEAMER or MOTORSHIP.

Received at London Office 25 NOV 1925

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

21<sup>st</sup> November 1925

Port of

Glasgow.

No.

45170

Survey held at

Paisley

Date First Survey

8.6.25

Last Survey

18<sup>th</sup> November 1925.

On the

(State if Machinery fitted Aft and if Single, Twin or Triple Screw)

Twin Screw

"KERALA"

State Type

(Full scantling, Complete Superstructure with or without Tonnage Openings)

Restricted class.

State Type of Erections

none.

TONNAGE under Tonnage Deck

75.94

CLASS *A1 for towing Services.*

State if with freeboard as condition of Class

FEET.

Built at

Paisley.

Do. of space or spaces between Tonnage Dk. and Upper Dk.

75.94

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)

L

75

Breadth (greatest moulded)

B

17

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D

8.5

1st Longitudinal Number (L x D)

=

637.5

2nd Numeral L x (B + D)

=

1912.5

Framing Depth "d," at middle of length. See Sec. 3 (1d)

=

7.67

Proportions—Depth to Length—Uppermost continuous deck to top of keel

=

8.82

Do. Long Bridge to top of keel

=

✓

Draught Moulded

Hd. for voyage only.

Managers

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

Residence

London.

Port of Registry

Glasgow

If surveyed while building, afloat, or in dry dock

Building &amp; afloat.

Total

75.94

Gross Tonnage

77.65

Register Tonnage

10.67

## REGISTERED DIMENSIONS.

FEET.

Length

76.0

Breadth

17.05

Depth

8.10

FRAMES, ~~DOUBLE BOTTOM~~ AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>FRAMES, Spacing amidships</b>			<b>Bracket Floors, Frame</b>		
" " from $\frac{1}{2}$ length to Collision bulkhead	21"		" " Reversed Frame		
" " in peaks			" " Vertical Struts		
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>		
<b>Frame Amidships, Angle, <math>\square</math> or <math>\square</math></b>	4 2 $\frac{1}{2}$ 28		" " top Angles		
" " Extends up to	deck		" " bottom Angles		
<b>Reversed Frame Amidships, Angle</b>	2 $\frac{1}{2}$ 2 $\frac{1}{2}$ 24		<b>Side Girders, No. each side and thickness</b>		
" " Extends <i>across</i> up to	top of floor only		<b>Margin Plate</b> depth (excl. of flange) and thickness		
<b>Depth of Framing Girder</b>	4"		" " Vertical Angle to Tank side		
<b>Frames in Uppermost Continuous Deck, Angle, <math>\square</math> or <math>\square</math></b>			Bracket abaft $\frac{1}{2}$ len. from stem		
" " <b>Second Deck, Angle, <math>\square</math> or <math>\square</math></b>			" " Vertical Angle to Tank side		
" " <b>Third</b>			Bracket forward $\frac{1}{2}$ len. from stem		
<b>Framing in Peaks, Angle <math>\square</math></b>	4 3 $\frac{1}{2}$ 26		" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem		
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships</b>	$\frac{7}{8}$ @ 4 $\frac{1}{2}$		" " Gussets, spacing and scantling forward $\frac{1}{2}$ len. from stem		
<b>State if Frame Joggled</b>	Yes.		<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>		
<b>PANTING ARRANGEMENTS</b> (Sec. 7), state system and particulars			<b>INNER BOTTOM PLATING.</b>		
<b>STRENGTHENING OF BOTTOM FORWARD.</b> State Particulars			Breadth and thickness of Middle Line Strake		
<b>SINGLE BOTTOM.</b>			Thickness of remainder in Holds		
<b>Floors, Depth and thickness at mid-line in Hold</b>	10 x 24		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?	Yes	
Height of Brackets at side above base line at toe of frame	None		<b>BEAMS.</b>		
<b>Middle Line Keelson, on Floors, Angles</b>	8 x 3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 40		<b>Uppermost Continuous Deck, amidships in Wells, Angle, <math>\square</math> or <math>\square</math></b>	6 3 30	appd. 5 $\frac{1}{2}$ x 3 x 32
" " " Through Plate or Interstitial Plate			" " in way of Bridge, Angle, $\square$ or $\square$		
" " " Foundation Plate on Floors			Spacing	42"	
" " " Flat Plate Keel Angles			<b>Second Deck, amidships, Angle, <math>\square</math> or <math>\square</math></b>		
<b>Side Keelsons, No. each side</b>	One		Spacing		
" " Thickness of Interstitial Plate			<b>Third Deck, amidships, Angle, <math>\square</math> or <math>\square</math></b>		
" " Angle	5 3 38		Spacing		
<b>DOUBLE BOTTOM.</b>			<b>Fourth Deck, amidships, Angle, <math>\square</math> or <math>\square</math></b>		
<b>Solid Floors, thickness and spacing</b>			Spacing		
" " Are Frame and Reversed Frame joggled?			<b>Poop Deck, Angle, <math>\square</math> or <math>\square</math></b>		
<b>Bracket Floors, breadth and thickness at middle line</b>			Spacing		
" " breadth and thickness at margin plate			<b>Bridge Deck, Angle, <math>\square</math> or <math>\square</math></b>		
			Spacing		
			<b>Forecastle Deck, Angle, <math>\square</math> or <math>\square</math></b>		
			Spacing		



# PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>PILLARS, No. of Rows.....</b>	10			
" <b>in between Decks, Size and Spacing.....</b>				
" " " " " "				
" <b>in Holds " "</b>	2 1/4" x 42"			
" " " " " "				
<b>Centre Line Bulkhead</b>				
Stiffeners and Spacing.....				
Plating, thickness of .....				
<b>STRINGERS AND DECKS.</b>				
<b>Uppermost Continuous Deck.</b>				
Stringer Plate, breadth and thickness in Wells.....	30			
" " " " in way of Bridge.....				
" Angle in Wells.....	3 3 30			
Thickness of Plating abreast Deck openings in way of Wells.....	25			
Thickness of Plating abreast Deck openings in way of Bridge.....				
Thickness of Plating within line of openings.....				
If Sheathed, material and thickness.....	Leak. 2"			
<b>Second Deck.</b>				
Stringer Plate, breadth and thickness in Wells.....				
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.....				
Thickness of Plating within line of openings.....				
If Sheathed, material and thickness.....				
<b>Third Deck.</b>				
Stringer Plate, breadth and thickness.....				
If Plated, state thickness.....				
<b>Fourth Deck.</b>				
Stringer Plate, breadth and thickness.....				
If Plated, state thickness.....				
<b>Poop Deck.</b>				
Stringer Plate, breadth and thickness.....				
Plating, Sheathing, material and thickness.....				
<b>Bridge Deck.</b>				
Stringer Plate, breadth and thickness.....				
Plating, Sheathing, material and thickness.....				
<b>Forecastle Deck.</b>				
Stringer Plate, breadth and thickness.....				
Plating, Sheathing, material and thickness.....				

## SHELL PLATING.

SCANTLINGS.					RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.		
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?		No.	No. of Rows of Rivets.	RIVETS.	
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.	Rivets.			Diam.	Spacing cr. to cr.
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.
PLATE KEEL.....	Bar Keel.										
GARBOARD.....	35	30	26	26		single	1/8	3/8	Two	1/8	3/4 lapped
BOTTOM PLATING, No. of Strakes.....	40 1/2	28	25	25	appd 24 ends.	"	"	"	"	"	"
BIDGE PLATING, No. of Strakes.....	35 1/4	"	"	"	"	"	"	"	"	"	"
SIDE PLATING, No. of Strakes.....	40 1/2	"	"	"	"	"	"	"	"	"	"
UPPER DECK, Sheer-stake in Wells.....	40 1/4	30	"	"	"	"	"	"	"	"	"
UPPER DECK, Sheer-stake in Bridge.....											
STAKE BELOW Sheer-stake in Wells.....											
STAKE BELOW Sheer-stake in Bridge.....											
POOP SIDE PLATING.....											
BRIDGE SIDE PLATING.....											
FORECASTLE SIDE PLATING.....											

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—						
Extending to Upper Deck (Sec. 3 c)		6				
" Deck next below		✓				
As per Rule		4.				
		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper between decks		✓				
"	" <del>Second</del>	✓				
"	" <del>Third</del>	✓				
"	" Holds .....	25-20	2 1/2 x 2 1/2 x 20	30"		
COLLISION	" (in Hold) .....	"	3 1/2 x 2 1/2 x 30	24"		
AFTER PEAK	" .....	25	4 x 2 1/2 x 30	24"		

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar.....	Rolled steel bar	6 x 1	appd.	
STEM.....	"	8 x 1	5 1/2 x 1"	
STERN FRAME { Propeller Post.....	Forging			
{ Rudder.....	"	5 1/2 x 1"	Emerson	
RUDDER—A x D.....		21-6	Walkers	
Speed of Vessel.....		8 1/2 knots.	Thompson	
RUDDER mainpiece at head.....	Forging	3 1/4	Bros.	
" " heel.....		3 1/4		
" how constructed.....				arms shrunk and flayed to M.S.
" double or single plate.....				single 1/4
" coupling, vertical or horizontal.....				none.

## 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. Lanarkshire Steel Works*  
 Has the Steel been tested as required by the Rules? *Yes.* *Steel Company of Scotland Ltd.*



2 <sup>nd</sup> LONG. No. = 1912-5 = EQUIPMENT No. 2164-5												LETTER	ANCHORS.		
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.			
41240	1st Bower ...	2	3	10	-	2	24	5	7/8	2	0	2 1/4 ex. stock	ordinary	J Wright & Co	Bradley Heath 30.9.25.
41241	2nd " ...	2	3	10	-	2	25	5	7/8	2	0	do.	ordinary	Septino	S.E. Paul.
	3rd " ...														
	Collective weight.	5	2	20								5 1/2.			
41152	Stream .....	1	2	8	.	1	24	4	1	2	7/8	1 1/2 ex. stock.	ordinary	do.	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.	
	Length.	Diam.	Statury.	Break-ing.	Supplied.	Per Rule.			Length.	Diam.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
38034	60	1 1/16	8 1/2	12 1/8	15-2-1	14 1/16			60	1 1/16	stud full right link.	Bradley Heath 12.8.25. S.E. Paul.		TOWLINE... HAWSERS & WARPS	60	4 1/2	manilla	60	4 1/2
															60	3 1/2	-	60	3 1/2
Iron Stream Chain or Steel Wire																			

Steering Gear, Steam
Hand by Bow McLachlan & Co.
Steering Gear, Hand
Blocks & Tackles.

Boats
one, for voyage only.
Steering Chains, Size and Test
3/8" T.C. 9. 1.12.2. 6 LPH-W.
Windlass
Steam hand by J. Reid & Son.

Ceiling in Holds, thickness and material
2" red pine
Cargo Battens, thickness, material and spacing
1 1/2" red pine - 6" space.

Cargo Hatchways. (Upper Deck)
Steel plates and angles.
Thickness of Hatches
2 1/2"

Size of No. 1 Hatchway (Forward)
3' 6" x 3' 0" No. 2
No. 3
No. 4
No. 5
No. 6

Number of Shifting Beams and/or Fore and Afters

BOW, M<sup>C</sup>LACHLAN & CO., LTD.  
Builder's Signature
D. Mackwood (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. Oil tanks, decks, and bulkheads tested as per Rule. Vessel fitted for burning oil fuel, flash point 150°F. Section 35. 1924/25. of the Rules have been complied with. Freeboard marked on ship's side "for voyage only."

The following approved plans forwarded herewith:-
(1) Midship Section; (2) Profile & Deck Plan; (3) Framing Ports; (4) Stempost & Rudder; (5) Bulkhead Plan; (6) Keelsons & Engine & Boiler Seatings; (7) Boss Frames; (8) Stiffening in way of Propeller Brackets; (9) Stern Bracket; (10) Pumping Arrangement; (11) Bilge & Ballast arrangement (as fitted); (12) Midship Section (as built, forwarded in advance)
Two forging certificates attached.

The amount of Entry Fee ..... £ 2 : 0 : 0.
Special Survey Fee .... £ 20 : 0 : 0.
FREEBOARD FEE, Travelling Expenses, if any £ 2 : 0 : 0.
Fees applied for, 20/11/1925.
Received by me, 24 NOV 1925.
I am of opinion the Vessel should be Classed + A1. "For towing services."
Fitted for oil fuel. 11.25. F.P. above 150°F.
M. Macleod.
Surveyor to Lloyd's Register of Shipping.
State whether the Vessel has been built under Special Survey Yes.
Certificate to be sent to, GLASGOW Date of issue, 27/11/25.
Committee's Minute GLASGOW 24 NOV 1925
Character assigned A1 - A1
For towing services 11.25
Lloyd's A+C.P.
+ L.M.C 11.25
Fitted for oil fuel 11.25 F.P. above 150°F.

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

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W1257-0137 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.)

PILLARS,

"

"

"

"

Centre  
Stiffener

Plating

STRINGER  
Upper  
Stringer

"

"

Thick  
in

Thick  
in

Thick  
in

If Shear

Second  
Stringer

STRAKE

BOTTOM PLATE

GARBOARD

BOTTOM PLATE  
(Strakes)

BOTTOM PLATING  
(Strakes)

BOTTOM PLATING  
(Strakes)

UPPER DECK,  
stake in

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Particulars of Drop Test of  
1st Steel Anchors, viz.:—  
Height, Surveyor's Initials,  
Number of Certificate, Date  
of Test.

1st Bower

2nd "

3rd "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. ft., Bridge ft., Forecastle ft.  
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

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

Official No.

Signal Letters

particulars of composition

Is bottom of Vessel coated with cement *yes.* if not give

### PARTICULARS OF WATER BALLAST.—

Where Fitted.

Double bottom, aft,  
Double bottom, under Engines and Boilers,  
Double bottom, if under Engines only,  
Double bottom, if under Boilers only,  
Double bottom, forward.

\*Length.  
Feet.

Water Capacity.  
Tons.

Where Fitted.

\*Length.  
Feet.

Water Capacity.  
Tons.

Fore peak tank, (*Fresh water for voyage only*)  
After peak tank,  
Deep tank, aft,  
Deep tank, forward, *oil tank (permanent)*  
Other tanks, if fitted, *oil tank (for voyage only)*  
(If necessary, furnish further information by sketch.)

Total capacity of  
double bottom

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

Order for Special Survey No.

5702

Date

1.5.25

Dates of Surveys  
held while building

1925. June 8. 15. 29. July 22. 24. Aug 5. 17. 24. 31. Sept 8. 15.  
Oct 2. 6. 8. 13. 21. 27. 30. Nov 3. 5. 6. 16. 18.

Total No. of Visits

23

Diameter of