

STEEL STEAMER or MOTORSHIP.

-2 JUN 1926

Received at London Office

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.*

DISCLASSIFIED

BOX No. 91 Top.

Date of completion of report

29th May 1926

Port of

Glasgow.

No. 45211

Survey held at

Paisley

Date First Survey

8th February

Last Survey

24th May

1926.

On the (State if Machinery, fitted, Lift and of Single, Twin or Triple Screw)

Twin Screw Eng "LOCH LONG"

State Type (Full Scantling, Complete Superstructure with or without Tonnage Deckings)

Full Scantling.

State Type of Erections

Forcastle.

TONNAGE under Tonnage Deck

143.20

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)

L 90.0

Launched

18th March 1926

Yard No. 452

Total

143.20

Breadth (greatest moulded)

B 23.0

Builders

Bow. W. Lachlan & Co.

Gross Tonnage

144.95

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

D 11.0

Owners

The Admiralty.

Register Tonnage

47.20

1st Longitudinal Number (L x D) = 990

Managers

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

REGISTERED DIMENSIONS.

FEET.

Length

90.8

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

9.98

Residence

London.

Breadth

23.1

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

8.2

Port of Registry

✓

Depth

10.4

Draught Moulded

8' 5 1/4"

If surveyed while building, afloat, or in dry dock

Building.

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.
FRAMES, Spacing amidships			Bracket Floors, Frame		
" " from 1/3 length to Collision bulkhead	2 1/2"		" " Reversed Frame	✓	
" " in peaks			" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	✓	
Frame Amidships, Angle	4 2 1/2 32		" " top Angles	✓	
" " Extends up to	deck.		" " bottom Angles	✓	
Reversed Frame Amidships, Angle	3 1/2 2 1/2 28		Side Girders, No. each side and thickness	✓	
" " Extends up to	Across top of floor only double in E.S. and under Boiler Rooms.		Margin Plate depth (excl. of flange) and thickness	✓	
Depth of Framing Girder	4"		" " Vertical Angle to Tank side	✓	
Frames in Uppermost Continuous Deck, Angle, [or]	✓		" " Bracket abaft 1/2 len. from stem	✓	
" " Second Deck, Angle, [or]	✓		" " Vertical Angle to Tank side	✓	
" " TNA " " "	✓		" " Bracket forward 1/2 len. from stem	✓	
Framing in Peaks, Angle	4 2 1/2 28		" " Gussets, spacing and scantling abaft 1/2 len. from stem	✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	5/8" & 4 3/8		" " Gussets, spacing and scantling forward 1/2 len. from stem	✓	
State if Frame Joggled	Yes.		Tank Side Brackets, height above base line at toe of Frame and thickness	✓	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	None		INNER BOTTOM PLATING.		
STRENGTHENING OF BOTTOM FORWARD. State Particulars	None.		Breadth and thickness of Middle Line Strake	✓	
INGLE BOTTOM.			Thickness of remainder in Holds	✓	
Floors, Depth and thickness at mid-line in Holds	12 1/4" x 28" of floor line		Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	Yes.	
Height of Brackets at side above base line at toe of frame	none.		BEAMS.		
Middle Line Keelson, on Floors, Angles	3 1/2 2 1/2 28		Uppermost Continuous Deck, amidships	4 2 1/2 36	
" " Through Plate or Interstitial Plate	16 x 32		" " in Wells, Angle, [or]	✓	
" " Foundation Plates on Floors	12 x 32		" " in way of Bridge, Angle, [or]	✓	
" " Flat Plate Keel Angles	3 3 32		Spacing	2 1/2"	
Side Keelsons, No. each side	one		Second Deck, amidships, Angle, [or]	✓	
" " thickness of Interstitial Plate	✓		Spacing	✓	
" " Angles	Single 5 3 1/2 39		Third Deck, amidships, Angle, [or]	✓	
DOUBLE BOTTOM.			Spacing	✓	
Solid Floors, thickness and spacing	✓		Fourth Deck, amidships, Angle, [or]	✓	
" " Are Frame and Reversed Frame joggled?	✓		Spacing	✓	
Bracket Floors, breadth and thickness at middle line	✓		Poop Deck, Angle, [or]	✓	
" " breadth and thickness at margin plate	✓		Spacing	✓	
			Bridge Deck, Angle, [or]	✓	
			Spacing	✓	
			Forecastle Deck, Angle, [or]	4 2 1/2 30	
			Spacing	2 1/2"	

M259-0002 1/2

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.
PILLARS, No. of Rows.....	<i>Two</i>		Stringer Plate, breadth and thickness in way of Bridge	<i>✓</i>	
" <i>in 'tween Decks, Size and Spacing.....</i>	<i>✓</i>		Thickness of Plating abreast Deck openings in way of Wells	<i>✓</i>	
" " " " " <i>"</i>	<i>✓</i>		Thickness of Plating abreast Deck openings in way of Bridge	<i>✓</i>	
" <i>in Holds " "</i>	<i>2 3/8 & 2" as approved</i>		Thickness of Plating within line of openings...	<i>✓</i>	
" " " " " <i>"</i>			If Sheathed, material and thickness	<i>✓</i>	
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....	<i>✓</i>		Stringer Plate, breadth and thickness.....	<i>✓</i>	
Plating, thickness of	<i>✓</i>		If Plated, state thickness.....	<i>✓</i>	
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	<i>✓</i>	
Stringer Plate, breadth and thickness in Wells	<i>59 x 30</i>		If Plated, state thickness	<i>✓</i>	
" " " " <i>in way of Bridge</i>			Poop Deck.		
" <i>Angle in Wells</i>	<i>3 3 30</i>	<i>appd.</i>	Stringer Plate, breadth and thickness	<i>✓</i>	
Thickness of Plating abreast Deck openings in way of Wells	<i>28</i>	<i>36 where cut into Sheathed</i>	Plating, Sheathing, material and thickness ...	<i>✓</i>	
Thickness of Plating abreast Deck openings in way of Bridge	<i>✓</i>		Bridge Deck.		
Thickness of Plating within line of openings...	<i>✓</i>		Stringer Plate, breadth and thickness.....	<i>✓</i>	
If Sheathed, material and thickness	<i>PR 2 1/2"</i>		Plating, Sheathing, material and thickness ..	<i>✓</i>	
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	<i>✓</i>		Stringer Plate, breadth and thickness.....	<i>30</i>	
			Plating, Sheathing, material and thickness ...	<i>30</i>	

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if joggled?			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	35½	39	35	35		single	¾	3.07	3 6-2	¾	2 7/8	lapped
" Deck (if any)	✓											
BOTTOM PLATING, No. of Strakes ... 2	50½	29	25	25		"	5/8	2.68	2	5/8	2-19	"
BILGE PLATING, No. of Strakes	"	"	"	"		"	"	"	2	"	"	"
SIDE PLATING, No. of Strakes	✓											
UPPER DECK, Sheer-strake in Wells	41"	32	25	25		"	"	"	2	"	"	"
UPPER DECK, Sheer-strake in Bridge ...	✓											
STRAKE BELOW SHEER-strake in Wells	50	30	25	25								
STRAKE BELOW SHEER-strake in Bridge ...	✓											
POOR SIDE PLATING	✓											
BRIDGE SIDE PLATING ...	✓											
FOREC'TLE SIDE PLATING	50		25			"	"	"	2	"	"	"

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c).....4

„ Deck next below.....✓

As per Rule.....4.

FORGINGS and ~~CASTINGS.~~

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	✓			
STEM	Forging	5 1/2 x 1"	Holland's	%
STERN FRAME { Propeller Post	✓			
{ Rudder	Forging	5 1/2 x 1"	Holland's	%
RUDDER—A x D		34.95"		
Speed of Vessel		9 Knots.		
RUDDER mainpiece at head ...	Forging	3 1/2	Holland's	%
" " heel ...	"	2 3/4	"	"
" how constructed		Forging Arms shunk on keyed to main piece.		
" double or single plate coupling, vertical or horizontal		single 7/2		
		horizontal.		

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *open-hearth process.*
Spent Co. of Scotland. Lanarkshire Steel Co. Ltd.
Has the Steel been tested as required by the Rules? *Yes.*

-2 JUN 34

EQUIPMENT No. 3060										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.				
21454	1st Bower ...	5	1	6	Stockless			7	11		14	5 1/4 Stockless	Fellows.	Fellows Bros	Bradley Heath 24.3.16.
44345	2nd " ...	5	-	-	"			7	7	2	0	5	Halls.	J. Wright & Co.	Tipton. 30.4.15. C.E. Perrins
	3rd " ...														
	Collective weight.	10	1	6								10 1/4 Stockless			
28585	KEDGE Stream	2	1	16	-	2	14	4	17	2	0	✓	Ordinary.	✓	Bradley Heath 14.5.18. C.E. Perrins

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.	Statutory.	Breaking.	Supplied.	Per Rule.		Length.	Diam.						Length.	Cir.	Tons.	Length.	Cir.
51204 (A1)	60	7/8	13 1/4	20 1/8	23-3-14	23 1/2		60	7/8	stud link	N. Bloomer & Sons Ltd.	Jipton 23/4/18.	C.E. Perrins.	TOWLINE ...	60	5 1/2	hanks	60	5 1/2
Iron Stream Chain or Steel Wire		Or.							Or.					HAWSERS & WARPS	60	3 1/2	"	60	3 1/2

Steering Gear, Steam & Hand by Bow McLauchlan & Co. Steering Gear, Hand Emergency blocks & Tackles.

Boats Two 16 x 5'9" x 2'3" Steering Chains, Size and Test 7/16" Shot Link, 3 Ton. 15 cwt. Windlass Steam. Ernest Wacker & Thompson Bros

Ceiling in Holds, thickness and material ✓ Cargo Battens, thickness, material and spacing ✓

Cargo Hatchways.—(Upper Deck) ✓ Thickness of Hatches ✓

Size of No. 1 Hatchway (Forward) ✓ No. 2 ✓ No. 3 ✓ No. 4 ✓ No. 5 ✓ No. 6 ✓

Number of Shifting Beams and/or Fore and Afters ✓

Builder's Signature BOW, McLAUCHLAN & CO., LTD. (Manager)

GENERAL DECLARATION The materials and workmanship are good. The vessel has been built in accordance with the approved plans, the secretary's letters of various dates and in general conformity with the Rules for the class contemplated. The tanks, decks and bulkheads have been tested in accordance with the rules. The freeboard has been verified and the marks "cut in" on the vessels side. The following approved plans forwarded herewith:

(1) Midship Section. (2) Profile and Deck Plan. (3) Sternframe & Rudder. (4) Bulkheads & Cabin flat (ford). (5) Aft end framing & Cabin flat. (6) Bilge & Ballast arrangement. (7) Boss framing. (8) Propeller Bracket. (9) & Tubular steel derrick: also Admiralty Specification and General Arrangement Plan.

Midship Section (as built) forwarded previously. Two forging & one casting certificate attached.

The amount of Entry Fee £ 2 : 0 : 0. Fees applied for, 31/5/26.

Special Survey Fee.... £ 20 : 0 : 0. Received by me, 3/6/26.

FREEBOARD FEE. Travelling Expenses, if any £ 2 : 0 : 0.

I am of opinion the Vessel should be Classed +100A1. "For Towing Services."

State whether the Vessel has been built under Special Survey Yes. Signature M. Macleod.

Certificate to be sent to GLASGOW Date of issue 4/6/26. Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 1-JUN 1926

Character assigned -100A1 For Towing Services 526

Lloyd's A+C.P. + LMC 526

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

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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.

Date of writing Report

No. in Survey he

Reg. Book.

9265 on the 5

Master

Engines made at

Boilers made at

Registered Horse P

Nom. Horse Power a

NGINES, &c.

Dia. of Cylinders

Is the screw shaft fi

in the propeller bo

between the bearings

liners are fitted, is

Dia. of Tunnel shaft

collars 4 1/2 Dia

No. of Feed pumps 2

No. of Bilge pumps

No. of Donkey Engin

In Engine Room

No. of Bilge Injections

Are all the bilge suction

Are all connections w

Are they fixed sufficien

Are they each fitted wi

What pipes are carry

Are all Pipes, Cocks,

Are the Bilge Suction

Is the Screw Shaft

BOILERS, &c.

Total Heating Sur

Working Pressure

Can each boiler be u

each boiler 2-bock

Smallest distance betw

Thickness 21/32 R

long seams T.R.D

Per centages of stren

Size of compensating

Length of plain par

Working pressure of

Pitch of stays to ditt

Material of stays

Material steel

Area at smallest

Thickness 25/32 Ma

Diameter of tubes

Pitch across wid

thickness of girder

Working pressure

Diameter

Pitch of rivets

SUPERHEAT

Date of Test

Diameter of Safety

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

1st Bower

3. 0. 17 : K.H. 2004 : 5. 12. 13.

2nd "

2. 3. 23 : K.H. 2326 : 26. 6. 14.

3rd "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle 12.6 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) 1 de. (sh.)

(2 1/2" R.P. in way of Crew Space & Saloon.)

Official No.

Signal Letters

Is bottom of Vessel coated with cement

Yes. if not give

particulars of composition

PARTICULARS OF WATER BALLAST.—

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,			After peak tank,		
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward, Reserve Fuel Tank	5.375	10.
Double bottom, forward,			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. 5440

Date 21. 12. 25

Dates of Surveys held while building

1926 Feb. 8. 10. 14. 24. 25 Mar. 2. 9. 12. 15. 14. 18. 23. 30 Apr. 9. 12. 15. 22. 28 May. 4. 19. 26

Total No. of Visits 21