

STEEL STEAMER or MOTORSHIP

Received at London Office

15 JAN 1942

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

8. 1. 42

Port of

Glasgow

No. 64917

Survey held at

Glasgow

Date First Survey

5th Feb 1941

Last Survey

2nd January 1942

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

Single Screw Cargo Vessel

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

Intermediate

State Type of Erections

Poop, Bridge + Deck

TONNAGE under Tonnage Deck...)

6147.10

CLASS +100 A.1.

State if with freeboard

Yes

Built at Glasgow

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

Total

6147.10

Gross Tonnage

6852.25

Register Tonnage

4004.38

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

L

420

Breadth (greatest moulded)

B

57.5

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

D

34.5

1st Longitudinal Number (L x D)

=

14490

2nd Numeral L x (B + D)

=

38552

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

20.87

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

12.17

Do. Long Bridge to top of keel

10.00

Draught Moulded

25.5"

Launched 17th October 41 Yard No. 684

Builders Barclay Currie & Co. Ltd.

Owners British India Steam Navigation Co. Ltd.

Managers

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

Residence as recorded

Port of Registry London

If surveyed while building, afloat, or in dry dock

Yes

REGISTERED DIMENSIONS.

FEET.

Length

427.9

Breadth

57.5

Depth

32.1

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	30		Bracket Floors, Frame		
" " from $\frac{3}{4}$ length amidships to Collision bulkhead	27		" " Reversed Frame		
" " in peaks	34		" " Vertical Struts		
SIDE FRAMING.			Centre Girder, depth and thickness amidships	45" x 53	
Frame Amidships, Angle, E or F	12 x 3 1/2 x 45		" " top Angles	3 1/2 x 3 1/2 x 47	
" " Extends up to	main deck		" " bottom Angles	4 x 4 x 53	
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	1 @ 37	
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	39" x 53	
Depth of Framing Girder	12"		" " Vertical Angle to Tank side	6 1/2 x 6 1/2 x 55	6 x 6 x 44
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	8 x 3 1/2 x 39 8 x 3 1/2 x 49 in way of Bridge. + 5 x 3 1/2 x 58 angles.		" " Bracket abaft 1/4 len. from stem	7 3/4 x 3 1/2	
" " Second 'tween Decks, Angle, E or F			" " Vertical Angle to Tank side	do	130-142
" " Third " " " "			" " Bracket from forward 1/4 len. from stem to Panting Area	Every frame .41 .51 .85	
" " from 1/4 len. for'd. to 15% len. from Stem	12 x 3 1/2 x 54		" " Gussets, spacing and scantling abaft 1/4 len. from stem	Every frame .41 .51 .85	
" " in Peaks, Angle or F	8 x 3 1/2 x 49		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	Flat Tank part of frame 142	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 - 5/4		Tank Side Brackets, height above base line at toe of Frame and thickness	69 1/2 x 44	
State if Frame Joggled	Yes		INNER BOTTOM PLATING.		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	Yes		Breadth and thickness of Middle Line Strake	69 x 49	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes		Thickness of remainder in Holds	.43 - .39	
SINGLE BOTTOM.			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	
Floors, Depth and thickness at mid-line in Holds			BEAMS.		
Height of Brackets at side above base line at toe of frame			Uppermost Continuous Deck, amidships	9 x 3 1/2 x 42-36	
Middle Line Keelson, on Floors, Angles, E or F			" " in Wells, Angle, E or F	10 x 3 1/2 x 40 1/2	as approved.
" " " Through Plate or Intercoastal Plate			" " in way of Bridge, Angle, E or F	8 x 3 x 48	
" " " Foundation Plate on Floors			Spacing	30"	
" " " Flat Plate Keel Angles			Second Deck, amidships, Angle, E or F	11 x 3 1/2 x 43 1/2	
Side Keelsons, No. each side			Spacing	9 x 3 x 38	
" " thickness of Intercoastal Plate			Third Deck, amidships, Angle, E or F	30"	
" " Angles			Spacing		
DOUBLE BOTTOM.			Fourth Deck, amidships, Angle, E or F		
Solid Floors, thickness and spacing	.41 @ 30"		Spacing		
" " Are Frame and Reversed Frame joggled?	Yes		Poop Deck, Angle, E or F	7 x 3 x 33 1/4	
Bracket Floors, breadth and thickness at middle line			Spacing	6 x 3 x 37	
" " breadth and thickness at margin plate			Bridge Deck, Angle, E or F	30" x 24"	
			Spacing	8 x 3 x 41	
			Forecastle Deck, Angle, E or F	8 x 3 x 39	
			Spacing	30"	
				9 x 3 1/2 x 36	
				8 x 3 x 35	
				7 x 3 x 33	
				27" x 24"	

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>78 x .34</i>	<i>✓</i>
„ in 'tween Decks, Size and Spacing.....	} <i>wide spaced as approved.</i>		Thickness of Plating abreast Deck openings in way of Wells	<i>.36 - .32</i>	<i>✓</i>
„ „ „ „ „			Thickness of Plating abreast Deck openings in way of Bridge	<i>.36 x .30</i>	<i>✓</i>
„ in Holds „ „			Thickness of Plating within line of openings...	<i>.34 x .30</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>75" x .67</i>	<i>✓</i>	If Plated, state thickness	<i>✓</i>	
„ „ „ „ in way of Bridge	<i>75" x .42 x .39</i>	<i>✓</i>	Poop Deck.		
„ Angle in Wells	<i>6 x 6 x .67 6 5 x 5 x .48</i>	<i>✓</i>	Stringer Plate, breadth and thickness	<i>37 x .36</i>	<i>✓</i>
Thickness of Plating abreast Deck openings in way of Wells	<i>.63 - .42</i>	<i>✓</i>	Plating, Sheathing, material and thickness ...	<i>.26 with composition .30 where unsheathed.</i>	
Thickness of Plating abreast Deck openings in way of Bridge	<i>.41 - .36</i>	<i>✓</i>	Bridge Deck.		
Thickness of Plating within line of openings...	<i>.42 - .34</i>	<i>✓</i>	Stringer Plate, breadth and thickness.....	<i>72 x .48</i>	<i>✓</i>
If Sheathed, material and thickness	<i>✓</i>		Plating, Sheathing, material and thickness ...	<i>.44 unsheathed .42 with 1 1/2 composition inside houses</i>	<i>✓</i>
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	<i>78 x .39</i>	<i>✓</i>	Stringer Plate, breadth and thickness.....	<i>35" x .36</i>	<i>✓</i>
			Plating, Sheathing, material and thickness ...	<i>.36</i>	<i>✓</i>

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled? <i>na</i>	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>57½</i>	<i>.83</i>	<i>.73</i>	<i>.73</i>		<i>double</i>	<i>1"</i>	<i>3¾</i>	<i>four</i>	<i>1</i>	<i>4</i>	<i>Lapped</i>	
„ DBLG. (if any)	<i>✓</i>												
BOTTOM PLATING, No. of Strakes		<i>.64</i>	<i>.49</i>	<i>.52</i>		<i>double</i>	<i>7/8</i>	<i>3/3</i>	<i>four</i>	<i>7/8</i>	<i>3½</i>	<i>Lapped</i>	
BILGE PLATING, No. of Strakes		<i>.64</i>	<i>.49</i>	<i>.52</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>✓</i>	
SIDE PLATING, No. of Strakes		<i>.63</i>	<i>.46</i>	<i>.46</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>three</i>	<i>"</i>	<i>3/8</i>	<i>"</i>	
UPPER DECK, Sheer- strake in Wells.....	<i>78</i>	<i>1.25 at breaks</i> <i>.79</i>	<i>.46</i>	<i>.46</i>		<i>"</i>	<i>1 1/8</i>	<i>.49</i> <i>3¾</i>	<i>five</i> <i>four</i>	<i>1 1/8</i> <i>1"</i>	<i>4 1/2</i> <i>4</i>	<i>"</i> <i>✓</i>	
UPPER DECK, Sheer- strake in Bridge ...	<i>78</i>	<i>.63</i>	<i>✓</i>	<i>✓</i>		<i>"</i>	<i>7/8</i>	<i>3/3</i>	<i>three</i>	<i>7/8</i>	<i>3/8</i>	<i>"</i>	
STRAKE BELOW Sheer- strake in Wells.....	<i>76</i>	<i>.69</i>	<i>.46</i>	<i>.46</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>four</i>	<i>"</i>	<i>3/2</i>	<i>"</i>	
STRAKE BELOW Sheer- strake in Bridge ...	<i>"</i>	<i>.63</i>	<i>✓</i>	<i>"</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>three</i>	<i>"</i>	<i>3/8</i>	<i>"</i>	
POOP SIDE PLATING				<i>.40</i>		<i>1 plate in depth.</i>	<i>✓</i>	<i>✓</i>	<i>one</i>	<i>¾</i>	<i>2 7/8</i>	<i>"</i>	
BRIDGE SIDE PLATING ...		<i>.57</i>				<i>- do.</i>	<i>✓</i>	<i>✓</i>	<i>four</i>	<i>7/8</i>	<i>3/2</i>	<i>"</i>	
FOREC'TLE SIDE PLATING				<i>.42</i>		<i>single</i>	<i>¾</i>	<i>3</i>	<i>one</i>	<i>¾</i>	<i>2 7/8</i>	<i>"</i>	

WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—	Seven
Extending to Upper Deck (Sec. 3 c)	Seven
" Deck next below	✓
As per Rule	approved.

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULK'D, Upper tween decks	No 13 ✓ L 27 ✓	5 × 3 × .34 ✓ 5 × 3 × .33 ✓	29½ × ✓ 30 ✓		
" " Second "					
" " Third "					
" " Holds	No 13 L ✓ 43-29 ✓	12 × 3½ × .51 ✓ 12 × 3½ × .49 ✓	30 × ✓ 29¼ ✓		
COLLISION " (in Hold)	L 8½-30 ✓	8 × 3 × .40 ✓ 6 × 3 × .30 ✓	24 ✓ 20 ✓	4 Semi Box Beams as approved. ✓	
AFTER PEAK " "	No 13 L ✓ 50-30 ✓	10 × 3½ × .46 ✓ 6 × 5 × .40 ✓	36 ✓ 24 ✓	Tunnel flat & 1 Semi Box Beam ✓	

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	✓			
STEM	Rolled Bar	10 × 27½ /		
Stern Frame { Propeller Post	Cast Steel	as approved	Kendrick Scott ✓	
{ Rudder "				
Speed of Vessel	12 Knots ✓			
RUDDER—Type	Ordinary			
" A × D	63 ✓			
" Diam. of head		12		
" Mainpiece at top pintle		11½		Dunn's plain Forge
" " heel ...		8¾		
" how constructed	Arms	Shank & Keyed to post		
" double or single plate coupling, vertical or horizontal	Single	1-17 ✓		

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STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)

Colville LHS -
Smith on Loan LHS

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

Lloyd's Register
Foundation

EQUIPMENT No 40331.90												LETTER at		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.				
40489	1st Bower ...	68	2	14	✓	✓	✓	53	1	3	14		Rye	not stated	Sunderland 28.1.41 Norman	
40516	2nd „ ...	68	0	7	✓	✓	✓	52	15	2	14		„	„	„ 5.2.41 „	
	3rd „ ...	Not supplied (modified equipment for duration of hostilities)														
	Collective weight.	136	2	21								1942				
99646	Stream	19	2	14	✓	5	1	10	20	8	1	21	19	Rodgers forged in Scot. Steel.	S Taylor & Sons	Wetherby 11.3.41 Relf

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.	Statu- tory.	Break- ing.	Supplied.		Per Rule.	Length.	Diam.	Length.					Cir.	Length.		Cir.					
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.				
116327	225 3/4	2	100%	141 1/2	478	3	20				Stud Link Tayco	5 Taylor & Sons	Halifax 20.10.41 Relf	TOWLINE...	120	4 3/4	64.6	120	4 3/4				
116329	15	"	"	"	31	2	14			✓	"	"	"	"									
116330	15	"	"	"	31	3	0	✓	270	2	"	"	"	"	HAWSERS & WARPS	2090	2 3/4	15.2	180	2 3/4			
116331	15	"	"	"	31	2	21				"	"	"	"									
	270 3/4															2090	3	18.6	180	2 1/2			
		Or.								Or.					"								
Loop Stream Chain or Steel Wire	90	5		52.8					90	5					"								

Steering Gear, Type (Power or hand) *Steam Hyd. by Haslie & Co* Alternative Means of Steering *Blocks & Tackle*

Steering Chains (Size and Test) *✓* Windlass *Steam by Clark Chapman* Boats *4 @ 30' (Steel) 62 persons*

Ceiling in Holds, thickness and material *8 x 2 1/2 w.p. over Ridges* Cargo Battens, thickness, material and spacing *✓*

Cargo Hatchways.—(Upper Deck) *Steel plates & angles* Thickness of Hatches *2 3/8" w.p. 2nd dk. See Ellis 23.1.42*

Size of Hatchways No. 1 (Fwd.) *27' x 22'* No. 2 *32' 6" x 22'* No. 3 *14' x 18'* No. 4 *32' 6" x 22'* No. 5 *27' 6" x 22'* No. 6

Number of Shifting Beams *4* *5* *2* *5* *4*

Builder's Signature

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel *Lo*

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo *Lo* The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point (where required to be inserted in the Notation).

This vessel has been built in accordance with the approved plans, the Secretary's letters of various dates & in general conformity with the Rules for the class contemplated.

The workmanship & materials are good. The Double Bottoms Tanks & Peak Tanks have been tested with satisfactory results.

The foreboard has been bumped & the markings cut in on vessels sides.

The windlass, Steering Gear & Emergency Steering Gear have been tried with satisfactory results. W.T. bds & weather decks have tested & Bilge Suctions also Stand Pump tried with satisfactory results.

Provision is made for fitting spanning cleats but no Cargo battens fitted.

One Bower Anchor to be supplied at the end of the war.

The amount of Entry Fee £ 10 : 0 : 0 Fees applied for, **13 JAN 1942**

Special Survey Fee.... £ 371 : 6 : 0 Received by me,

Foreboard 17 0 0

Travelling Expenses, if any £ : : 19

(Special notations, where part of class, to be stated.)

I am of opinion the Vessel should be Classed *+ 100 A.1.* with foreboard.

State whether the Vessel has been built under Special Survey *Yes*

Signature

T.R. McIlvenna

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *Glasgow* Date of issue *2/2/42*

Committee's Minute **GLASGOW 13 JAN 1942** *Im.*

Character assigned *- 100 A.1 1.42* with foreboard

Lloyd's Assoc

+ Surc 1.42

Note Equip & Cgo bns

W226-0242 (2/2)

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.)

APPROVED PLANS:—

midship section as built forward in advance.

midship section

Profile & Decks

Pillars & Riggers

Fore end framing

Aft end framing

Peak Bkds.

Longitudinal Stiffeners

Cast-Steel spar Tiller.

Coal Bunker Bkds.

Pillars & webs in P.B.

Heights of door & vent coamings.

The following plans are for 684 & 683 mty.

Horizontal framing in Stern.

Pillars & Riggers (part)

Ends of ribs patent-staleh webs.

Poop & Boat decks

Bilge Ballast and

Stern frame samples.

Door & vent coamings

Outline of sections for equipment.

The vessel is a sister ship to S.S. "LIRLANA." Glasgow Regt No. 64701.

PARTICULARS OF ELECTRIC WELDING (if employed)

minor items

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book

with preboards - 2 dth -

under Stern - Lloyd's A.R.P. - wireless.

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

1st Bower	C. & G. 260. 44.0.14	10	3240	18.9.40
2nd "	44.3.9	10	3260	28.9.40
3rd "	not supplied.			

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 45.5 ft., R.Q.D. ✓ ft., Bridge 140 ft., Forecastle 39 ft.
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated ✓

Official No. 468241 Signal Letters B.C.W.Z. Extreme Breadth over Belting ✓ Over-all Length 442.50
(Circ. 1611) (Circ. 1703)

No. and Material of Decks 2 dth steel

Parts of Bottom of Vessel coated with cement or approved composition Cement in Peak Tanks & DB Tanks
Belumastic in Belges.

Particulars of composition (if fitted) and of approval ✓

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284)
Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	137.5	383	Fore peak tank,	21	139
Double bottom, under Engines and Boilers,	65.0	324	After peak tank,	22	118
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	✓	✓
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	✓	✓
Double bottom, forward,	167.5	650	Other tanks, if fitted,	✓	✓
Total length (if continuous) and Capacity	370.0	1357	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 6548

Date 12.8.40

Dates of Surveys held while building

1941 Feb: 5.6.20 Mar: 4.6.10.12.13.20.25.28.31 Apr: 4.18.21.23.28 May: 6.12.14.20.21
28 June: 4.18 July: 3.8.14.31 Aug: 8.11.15.19.22.27 Sep: 4.8.12.15.17.18.22.25.30
Oct: 1.6.7.8.10.13.15.17.23 Nov: 13.28 Dec: 1.10.13.18.22.31 (1942) Jan: 2

Total No. of Visits 62

Lloyd's Register Foundation