

## STEEL STEAMER or MOTORSHIP.

Received at London Office 10 MAY 1933

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 6<sup>TH</sup> MAY 1933

Port of GREENOCK

No. 19543

Survey held at PORT-GLASGOW

Date First Survey 30<sup>TH</sup> AUGUST 1932Last Survey 5<sup>TH</sup> MAY

1933

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

SINGLE SCREW

"HARBLEDOWN"

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

FULL SCANTLING

State Type of Erections POOP, BRIDGE &amp; FOCL

TONNAGE under Tonnage Deck... 4948.29

CLASS 100A1

State if with freeboard as condition of Class No

Built at

PORT-GLASGOW

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 425.0

Launched 27<sup>TH</sup> MARCH 1933 Yard No. 861

Total 4948.29

Breadth (greatest moulded) B 56.0

Builders LITHGOWS LIMITED

Gross Tonnage 5413.52

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 28.75

Owners NATIONAL STEAMSHIP COMPANY LIMITED

r Tonnage 3206.91

1st Longitudinal Number (L x D) = 12218.75

Managers J &amp; C HARRISON, LTD.

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

2nd Numeral L x (B + D) = 36018.75

Residence 66 MARK LANE LONDON

REGISTERED DIMENSIONS. FEET.

Framing Depth "d," at middle of length. See Sec. 3 (1d) 24.52

Proportions—Depth to Length—Uppermost continuous deck to top of keel 14.78

Port of Registry LONDON

Do. Long Bridge to top of keel 11.25

If surveyed while building, afloat, or in dry dock

Draught Moulded 24'-7 1/2"

BUILDING, AFLOAT &amp; IN DRY DOCK.

## 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.
S, Spacing amidships	27 1/2		Bracket Floors, Frame	B.A. 6 3/2 38	
" from 3/4 length to Collision bulkhead	27		" " Reversed Frame	B.A. 5 1/2 3 38	
" in peaks	24		" " 2 CHANNEL 10 x 3 1/2 x 3 1/2 x 42	5 1/2 3 38	
FRAMING.			Centre Girder, depth and thickness amidships	47	48
Amidships, Angle, E or C N.B.S.	12 3 1/2 56		" " top Angles	3 3 50	
" Extends up to	UPPER DECK.		" " bottom Angles	4 4 56	
FRAMING FORWARD.			Side Girders, No. each side and thickness	1 2 38	
Second Frame Amidships, Angle CHANNEL WITH 5 x 4 x 64 REV BAR	12 x 4 x 4 x 50		Margin Plate depth (excl. of flange) and thickness	44	50
" Extends up to	UPPER DECK.		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem DEEP FRAMING	5 5 44	
of Framing Girder	12		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem AT DEEP FRAMING	6 6 44	
es in Uppermost Continuous 'tween Decks, Angle, E or C	6 3 1/2 36		" " Gussets, spacing and scantling abaft 1/2 len. from stem	39 EVERY FRAME	
" Second 'tween Decks, Angle, E or C	EVERY FRAME		" " Gussets, spacing and scantling forward 1/2 len. from stem	39 EVERY FRAME	
" Third " " "			Tank Side Brackets, height above base line at toe of Frame and thickness	74" x 44	
ing in Peaks, Angle or C N.B.S.	7 1/2 3 1/2 37		INNER BOTTOM PLATING.		
eter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 R 2 6 1/4		Breadth and thickness of Middle Line Strake	78	47
if Frame Joggled	YES		Thickness of remainder in Holds		42
G ARRANGEMENTS (Sec. 7), state system and particulars	DEEP FRAME SYSTEM WITH 4 SIDE STRINGERS BELOW UPPER DECK AS APPR.		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?	ES BS	60 67 50 56
THENING OF BOTTOM FOR RD. State Particulars	5 x 5 x 42 FRAMES WITH 2 ROWS RIVETS & ADDITIONAL INTER GIRDERS FOR 3/5 <sup>TH</sup> LTH AS APPR.		BEAMS.		
BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle, E or C	11 3 1/2 44	
Depth and thickness at mid-line in Holds			" " in way of Bridge, Angle, E or C	11 3 1/2 51	
Height of Brackets at side above base line at toe of frame			Spacing	EVERY FRAME	
Line Keelson, on Floors, Angles, C or C			Second Deck, amidships, Angle, E or C		
" Through Plate or Intercoastal Plate			Spacing		
" Foundation Plate on Floors			Third Deck, amidships, Angle, E or C		
" Flat Plate Keel Angles			Spacing		
le Keelsons, No. each side			Fourth Deck, amidships, Angle, E or C		
" thickness of Intercoastal Plate			Spacing		
" Angles			Poop Deck, Angle, E or C	7 3 34	
DOUBLE BOTTOM.			" AS APPR		
Solid Floors, thickness and spacing	39 EVERY 2ND		Spacing	EVERY FRAME	
" Are Frame and Reversed Frame joggled?	YES		Bridge Deck, Angle, E or C N.B.S.	9 3 1/2 40	
Bracket Floors, breadth and thickness at middle line	32 39		Spacing	EVERY FRAME	
" breadth and thickness at margin plate	32 39		Forecastle Deck, Angle, E or C N.B.S.	8 3 48	
			" AS APPR		
			Spacing	EVERY FRAME	



## 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</b> , No. of Rows.....									
" in 'tween Decks, Size and Spacing.....									
" " " " " "									
" in Holds " " " "									
" " " " " "									
<b>Centre Line Bulkhead.</b> <i>HOLDS</i>									
Stiffeners and Spacing..... <i>11 x 3 1/2 x 54 BA SPACED 53"</i>									
Plating, thickness of .....									
<i>D<sup>2</sup> BRIDGE SPACE 5 x 3 x 31 Ang. &amp; PLATING</i>									
<b>STRINGERS AND DECKS.</b>									
<b>Uppermost Continuous Deck.</b>									
Stringer Plate, breadth and thickness in Wells	<i>56</i>	<i>1.30 AFT</i>	<i>1.18 AFT</i>						
" " " " in way of Bridge	<i>60 x 48 x 42</i>		<i>40</i>						
" Angle in Wells .....	<i>6</i>	<i>6</i>	<i>72</i>						
Thickness of Plating abreast Deck openings in way of Wells .....	<i>81 FORW<sup>d</sup></i>	<i>83 AFT</i>	<i>74 FORW<sup>d</sup></i>						
Thickness of Plating abreast Deck openings in way of Bridge .....	<i>EXB CASING</i>	<i>46</i>	<i>40</i>						
Thickness of Plating within line of openings...	<i>IN WELLS</i>	<i>42</i>	<i>40</i>						
If Sheathed, material and thickness .....	<i>IN BRIDGE</i>	<i>40</i>	<i>34</i>						
<b>Second Deck.</b>									
Stringer Plate, breadth and thickness in Wells...									
Stringer Plate, breadth and thickness in way of Bridge .....									
If Plated, state 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 .....	<i>36</i>	<i>x</i>	<i>38</i>						
Plating, Sheathing, material and thickness .....	<i>24 SHEATHED</i>	<i>5 x 2 1/2</i>	<i>P.P.</i>						
<b>Bridge Deck.</b>									
Stringer Plate, breadth and thickness .....	<i>58</i>	<i>x</i>	<i>72</i>						
Plating, Sheathing, material and thickness .....	<i>59</i>	<i>x</i>	<i>64</i>						
<b>Forecastle Deck.</b>									
Stringer Plate, breadth and thickness .....	<i>35</i>	<i>x</i>	<i>39</i>						
Plating, Sheathing, material and thickness .....									

## SHELL PLATING.

SCANTLINGS.						RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? <u>ORDINARY</u>			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth. Inches.	Thickness. Inches.	Thickness. Inches.	Thickness. Inches.			Diam. Inches.	Spacing cr. to cr. Inches.		Diam. Inches.	Spacing cr. to cr. Inches.	
FLAT PLATE KEEL .....	49	78	68	68		DOUBLE	7/8	3.4	4R - 3R	1	4	LAPPED.
„ DBLE. (if any)												
BOTTOM PLATING, No. of Strakes ... 4 .....	3	61	60	46	46 FORW <sup>d</sup>	„	„	„	3R	7/8	3 1/8	„
BILGE PLATING, No. of Strakes ..... 1 .....		61	60	46	46 FORW <sup>d</sup>	„	„	„	„	„	„	„
SIDE PLATING, No. of Strakes ..... 2 .....		60	69	44	44 FORW <sup>d</sup>	„	„	„	„	„	„	„
UPPER DECK, Sheer- strake in Wells.....	80	1.02 AFT 1.04 FORW <sup>d</sup>	44	44		„	1	3.9	4R - 3R	1 1/8	5	„
UPPER DECK, Sheer- strake in Bridge ...		60				„	7/8	3.4	3R	7/8	3 1/8	„
STRAKE BELOW Sheer- strake in Wells.....		66 AFT 72 FORW <sup>d</sup>	53	44	FORW <sup>d</sup> 60 - 44	„	1	3.9	3R	„	„	„
STRAKE BELOW Sheer- strake in Bridge ...		60				„	7/8	3.4	3R	„	„	„
POOP SIDE PLATING .....				38		SINGLE	3/4	3.0	1R	3/4	2 5/8	„
BRIDGE SIDE PLATING ...		60				DOUBLE	7/8	3.4	3R	7/8	3 1/8	„
FOREO'TLE SIDE PLATING			42			SINGLE	3/4	3.0	1R	3/4	2 5/8	„

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel— *7*Extending to Upper Deck (Sec. 3 c) *7*Deck next below *✓*As per Rule *7*

## FORGINGS and CASTINGS.

Casting or Forging. Scantlings. Maker's Name. Any departure from approved plans to be noted.

KEEL, Bar *✓*STEM *FORGING. 9 1/2 x 2 1/2*STERN FRAME { Propeller Post *108 x 7 1/2* N. SOMERS{ Rudder *13 x 8 1/2* LT<sup>d</sup>RUDDER—A x D..... *TUTIN TYPE RUDDER.*Speed of Vessel..... *11K.*RUDDER mainpiece at head *FORGING. 12 1/4 x 10 1/2* N. SOMERSheel *9* LT<sup>d</sup>how constructed *BUILT FORGING.*double or single plate *SINGLE PLATE 93*coupling, vertical or horizontal..... *HORIZONTAL.*

## STIFFENERS.

Plating Thickness. VERTICAL. HORIZONTAL. Scantlings. Spacing. Scantlings. Spacing.

MIDSHIP BULKHEAD, Upper-tween decks

" " *Second* "" " *Third* "

" " Holds .....

COLLISION " (in Hold) .....

AFTER PEAK " " .....

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *OPEN HEARTH PROCESS.*

STEEL.

*COLVILLES LTD ; STEEL COMPANY OF SCOTLAND LTD ; FRODINGHAM IRON & STEEL WORKS ; STEWARTS & LLOYDS LTD.*Has the Steel been tested as required by the Rules? *YES.*



EQUIPMENT No 38724												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.			
34255	1st Bower ...	68	1	0	Stockless			52	15	2	14	68	BYERS IMPROVED	NOT STATED.	SUNDERLAND 28.2.33 J. H. BUTLER.
34254	2nd „ ...	68	0	14	"			52	15	2	14	68	D <sup>2</sup>	D <sup>2</sup>	D <sup>2</sup> .
34256	3rd „ ...	58	2	14	"			47	11	1	0	58½	D <sup>2</sup>	D <sup>2</sup>	D <sup>2</sup> .
	Collective weight.	195	0	0								194½			
47070	Stream .....	19	0	21	5	0	0	20	1	3	14	19	ORDINARY.	D <sup>2</sup>	CRADLEY HEATH 24.2.33 S. C. PAUL.

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.	Fathoms.	Ins.	
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.			Fathoms.	Ins.	Tons.	Fathoms.	Ins.		
48056	255	2 <sup>5</sup> / <sub>16</sub>	96 <sup>1</sup> / <sub>4</sub>	134 <sup>3</sup> / <sub>4</sub>	681	-	1-0	720 <sup>3</sup> / <sub>4</sub>	270	2 <sup>5</sup> / <sub>16</sub>	STUOLINK.	NOT STATED.	CRADLEY HEATH. 24.2.33 S. C. PAUL.	TOWLINE...	120	4 <sup>3</sup> / <sub>4</sub>	64.6	120	4 <sup>3</sup> / <sub>4</sub>
17478	15 <sup>3</sup> / <sub>16</sub>	2 <sup>5</sup> / <sub>16</sub>	96 <sup>1</sup> / <sub>4</sub>	134 <sup>3</sup> / <sub>4</sub>	42	-	0-14				STUOLINK	D <sup>2</sup>	SUNDERLAND 4.2.32 J. H. BUTLER.	HAWSERS & WARPS	2490	2 <sup>3</sup> / <sub>4</sub>	21.1	22	2 <sup>3</sup> / <sub>4</sub>
	270 <sup>3</sup> / <sub>16</sub>				723	-	1-14							"	2290	2 <sup>1</sup> / <sub>2</sub>	17.7	22	2 <sup>1</sup> / <sub>2</sub>
		Cir.								Cir.				"	2290	3 <sup>1</sup> / <sub>2</sub>	25.7	✓	✓
Iron Stream Chain or Steel Wire	90	5	70.9						90	5	G.S.W.			"	2290	3 <sup>1</sup> / <sub>2</sub>	25.7	✓	✓

Steering Gear, Steam BY HASTIE & CO., GREENOCK.

Steering Gear, Hand BY RELIEVING TACKLE TO POOP WINCH.

Boats 2 LIFEBOATS & 2 GIGS.

Steering Chains, Size and Test

TELE MOTOR GEAR.

Windlass STEAM BY EMERSON WALKER LTD.

Ceiling in Holds, thickness and material 2½" W.P. THROUGHOUT HOLDS.

Cargo Battens, thickness, material and spacing 2½" W.P. SPACED 9" APART IN HOLDS & BRIDGE SPACE

Cargo Hatchways.—(Upper Deck) STEEL COAMINGS & ANGLES.

Thickness of Hatches 3" SOLID COVERS.

Size of No. 1 Hatchway (Forward) 29'-3" x 24'-0" No. 2 32'-1" x 20'-0" No. 3 22'-11½" x 20'-0" No. 4 36'-8" x 20'-0" No. 5 32'-1" x 24'-0" No. 6 ✓

Number of Shifting Beams and/or Fore and Afters 6 WEBS IN NOS 1, 2 & 5 HATCHES; 1 WEB IN EACH NO 3 HATCH; 7 WEBS IN NO 4 HATCH; ✓

Builder's Signature

FOR LITHGOW'S LIMITED.

Robert Campbell.

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel No (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo No The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

This vessel has been built in accordance with the Approved Plans and in general conformity with the Society's Rules for the class contemplated.

The workmanship & materials are of good quality.

All the Double Bottom Tanks, the Fore Peak Tank, & the After Peak Tank were tested in accordance with Rule requirements & found satisfactory.

The weather decks; shaft tunnel; W.T. bulkheads; & chain locker were also tested & found satisfactory.

The Freeboards were verified & the marks cut in on vessel's sides.

The amount of Entry Fee ..... £ 9 : 0 : 0

Special Survey Fee.... £ 335 : 7 : 0

FREEBOARD  
Travelling Expenses, if any £ 16 : 0 : 0

Fees applied for,

6<sup>th</sup> MAY 1933

Received by me,

10.5.1933

I am of opinion the Vessel should be Classed \*100A1

State whether the Vessel has been built under Special Survey YES.

Signature R. Loundsmuir

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to GREENOCK.

Date of issue 12/5/33

Committee's Minute GLASGOW 9-MAY 1933

Character assigned +100A1

5.33.

Lloyd's Assoc.

+ L.M.C. 5.33.F.D.

"Exhaust Turbine driving steam compressor."



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Lloyd's Register Foundation

W 405-0214(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.)

This is a sister vessel to S. S. HARDINGHAM" See First Entry Report No 19510.

List of Plans.

Midship Section; Profile & Decks; Sternframe; Rudder; Bulkheads; Parting Arrangements; Strengthening in Double Bottom forward; Hatch-end beam; No 2 & 3 Hatch-side coamings; Cargo Hatches; Cruiser Stern; Profile showing N. T. Bulkheads; Bridge-end Strengthening; Tunnel; Bunkers; Pumping Arrangements; Midship Section; Profile & Decks; (as built).

Forging Reports: Sternframe; Rudder; Stem; Quadrant;

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	WEIGHT HEAD & PIN.	SURV INITS	No CERTIFICATE	DATE OF TEST.
		44-1-7	K.H.	9645	30.3.32
	2nd "	44-0-14	K.H.	9647	30.3.32
	3rd "	37-0-14	K.H.	9650	30.3.32

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 40.66 ft., R.Q.D. ✓ ft., Bridge 270.2 ft., Forecastle 37.83 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) 10K (STL).

Official No. 163338; Signal Letters Is bottom of Vessel coated with cement Yes. if not give particulars of composition BOTTOM WHOLLY CEMENTED THROUGHOUT.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	135.21	453	Fore peak tank,		167
Double bottom, under Engines and Boilers,	25.2	132	After peak tank,		240
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only, DRY TANK (N.T. Comp)	16.04		Deep tank, forward,		
Double bottom, forward,	189.08	824	Other tanks, if fitted,		
Total capacity of double bottom		1409	(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. 3334

Date 14th December 1932

Dates of Surveys held while building

(1932) Aug. 30 Sept. 6 8 13 14 16 20 22 26 28 Oct. 3 6 10 13 14 20 25 27 Nov. 1 14 16 18 21 23 Dec. 6 11 19 21 23 28  
(1933) Jan. 10 13 16 19 20 23 24 25 30 Feb. 3 6 9 10 13 14 15 19 20 21 23 24 25 Mar. 1 2 3 4 9 10 13 14 20 21 22 24 25  
April 6 20 26 May 5

Total No. of Visits 48