

STEEL STEAMER ~~OR~~ MOTORSHIP.

31 JAN 1934

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.

Date of completion of report

29th JANUARY 1934.

Port of

GREENOCK

No.

19693.

Survey held at

PORT - GLASGOW

Date First Survey

31st MARCH 1933.

Last Survey

26th JANUARY 1934.

1934.

On the

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

SINGLE SCREW "HARPASA"

State Type

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

FULL SCANTLING.

State Type of Erections Poop, BRIDGE & FOCLE.

TONNAGE under Tonnage Deck

4529.81

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 415.0

Launched 5th DECEMBER 1933. Yard No. 864

Total

4529.81

Breadth (greatest moulded) B 56.0

Builders LITHGOWS LIMITED

Net Tonnage

5082.13

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 27.25

Owners NATIONAL STEAMSHIP COMPANY LIMITED.

Gross Tonnage

3035.50

1st Longitudinal Number (L x D) = 11308.75

Managers J & C HARRISON, LTD.

(Where necessary to be entered in R29. Book.)

2nd Numeral L x (B + D) = 34548.75

Residence LONDON

REGISTERED DIMENSIONS. FEET.

Framing Depth "d," at middle of length. See Sec. 3 (1d) 23.09

Port of Registry LONDON.

Length

418.0

Proportions—Depth to Length—Uppermost continuous deck to top of keel 15.23

If surveyed while building, afloat, or in dry dock

Breadth

56.25

Do. Long Bridge to top of keel 11.29

BUILDING, AFLOAT & IN DRY DOCK.

Depth

24.6

Draught Moulded 23'-9 1/2"

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	26 1/2		Bracket Floors, Frame	B.A. 6 3 1/2 37	
" " from 3/4 length to Collision bulkhead	26 1/2		" " Reversed Frame	B.A. 5 3 42	
" " in peaks	24		" " Vertical Struts	CHANNEL 9 x 3 1/2 x 3 1/2 38	
DEEP FRAMING FORWARD.			" " Vertical Struts	L.B.A. 5 3 42	
Reversed Frame Amidships, Angle CHANNEL REV ANGLE	12 x 4 x 4 x 4 5 4 46		Centre Girder, depth and thickness amidships	46 46	
" " Extends up to	UPPER DECK		" " top Angles	3 3 50	
Depth of Framing Girder	12		" " bottom Angles	4 4 55	
Frames in Uppermost Continuous Decks, Angle E or F	6 3 1/2 30	5 1/2 x 3 x 34	Side Girders, No. each side and thickness	1 2 38	
" " Second Tween Decks, Angle E or F			Margin Plate depth (excl. of flange) and thickness	44 49	
" " Third " " " "			" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	5 5 43	
Framing in Peaks, Angle E or F	7 3 1/2 41		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	6 6 43	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 R 2 6 1/2		" " Gussets, spacing and scantling abaft 1/2 len. from stem	38 CONT. PLATE	
State if Frame Joggled	YES		" " Gussets, spacing and scantling forward 1/2 len. from stem	38 " "	
STRENGTHENING ARRANGEMENTS (Sec. 7), state system and particulars	DEEP FRAME SYSTEM WITH 4 SIDE STRINGERS AS APPROVED.		Tank Side Brackets, height above base line at toe of Frame and thickness	74 43	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	5 x 5 x 40 FRAMES TO FLOORS FORWARD OF 1/2 LENGTH, AND ADDITIONAL INTERMEDIATE GIRDERS AS APPR.		INNER BOTTOM PLATING.		
DOUBLE BOTTOM.			Breadth and thickness of Middle Line Strake	78 46	
Floors, Depth and thickness at mid-line in Holds			Thickness of remainder in Holds	41	
Height of Brackets at side above base line at toe of frame			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	E.S. 59 49 B.S. 67 56	
Middle Line Keelson, on Floors, Angles, E or F			BEAMS.		
" " Through Plate or Intercoastal Plate			Uppermost Continuous Deck, amidships in Wells, Angle E or F	10 3 1/2 38 AFT FOR	
" " Foundation Plate on Floors			" " in way of Bridge, Angle E or F	9 3 1/2 43	
" " Flat Plate Keel Angles			" " Spacing	11 3 1/2 52	
Side Keelsons, No. each side			" " Spacing	EVERY FRAME	
" " thickness of Intercoastal Plate			Second Deck, amidships, Angle E or F		
" " Angles			" " Spacing		
DOUBLE BOTTOM.			Third Deck, amidships, Angle E or F		
Solid Floors, thickness and spacing	38 EVERY 2ND		" " Spacing		
" " Are Frame and Reversed Frame joggled?	YES		Fourth Deck, amidships, Angle E or F		
Bracket Floors, breadth and thickness at middle line	31 38		" " Spacing		
" " breadth and thickness at margin plate	31 38		Poop Deck, Angle E or F	N.B.S. 7 3 30	
			" " Spacing	EVERY FRAME	
			Bridge Deck, Angle E or F	N.B.S. 9 3 1/2 50	
			" " Spacing	EVERY FRAME	
			Forecastle Deck, Angle E or F	N.B.S. 8 1/2 3 42	
			" " 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.
PILLARS, No. of Rows				
.. in 'tween Decks, Size and Spacing.....				
" " " " "				
.. in Holds				
" " " " "				
Centre Line Bulkhead. <i>HOLDS 11" 3 1/2 x 40 B A w 53"</i>				
Stiffeners and Spacing.... <i>IN BRIDGE SPACE 5" 3 x 31 A n g w 53"</i>				
Plating, thickness of <i>HOLDS BRIDGE SPACE...</i>				
STRINGERS AND DECKS.				
Uppermost Continuous Deck.				
Stringer Plate, breadth and thickness in Wells	<i>54" x 1'28 FOR 2</i>	<i>1'16 FOR 2</i>		
" " " " in way of Bridge	<i>57" x 1'36 AFT</i>	<i>1'24 AFT</i>		
.. Angle in Wells	<i>60</i>	<i>41</i>		
Thickness of Plating abreast Deck openings) in way of Wells	<i>6 x 6 x 7/4 FOR 2</i>	<i>1'10 x 1'08 FOR 2</i>		
Thickness of Plating abreast Deck openings) in way of Bridge	<i>6 x 6 x 30 AFT</i>	<i>1'18 AFT</i>		
Thickness of Plating within line of openings...	<i>1'10 x 1'08 FOR 2</i>	<i>1'00 FOR 2</i>		
If Sheathed, material and thickness	<i>1'18 AFT</i>	<i>1'07 AFT</i>		
Second Deck				
Stringer Plate, breadth and thickness in Wells	<i>39 x 46</i>	<i>1'37 x 44</i>		
.. in BRIDGE	<i>35</i>	<i>33</i>		
.. IN WELLS	<i>42</i>	<i>40</i>		
Plating, Sheathing, material and thickness				
.. Poop Deck				
Stringer Plate, breadth and thickness	<i>38" x 35" x 42</i>			
Plating, Sheathing, material and thickness	<i>36 UNSHEATHED</i>			
.. Bridge Deck				
Stringer Plate, breadth and thickness	<i>26 WITH 5 x 2 1/2 B.C.</i>			
Plating, Sheathing, material and thickness				
.. Forecastle Deck				
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. State if joggled? <u>ORDINARY.</u>			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	49"	.75	.66	.66		DOUBLE	7/8"	3.3	4R-3R	1"	4"	LAPPED.
" DECK (if any)		SHELL FORWARD IN WAY OF DEEP FRAMING. .67'										
		BOTTOM SHELL FORWARD OF 1/2 LTH FORWARD .65'										
BOTTOM PLATING, No. of Strakes ...H.....}		.59	.46	.46		DOUBLE	"	"	3R	7/8"	3 1/8"	"
BILGE PLATING, No. of Strakes1.....}		.59	.46	.46		"	"	"	"	"	"	"
SIDE PLATING, No. of Strakes2.....}		.58	.44	.44		"	"	"	"	"	"	"
UPPER DECK, Sheer- strake in Wells.....}	42" 85	1.12 FOR'D 1.10 AFT	.44	.44		"	1"	3.8	4R-3R	1"	4"	"
UPPER DECK, Sheer- strake in Bridge ...}		.58				"	7/8"	3.3	3R	7/8"	3 1/8"	"
STRAKE BELOW Sheer- strake in Wells.....}	58" 76"	.78 FOR'D .64 AFT.	.44	.44	.65 FOR'D	"	"	"	"	"	"	"
STRAKE BELOW Sheer- strake in Bridge ...}		.58				"	"	"	"	"	"	"
POOP SIDE PLATING38		SINGLE	3/4"	3.0	1R	3/4"	2 5/8"	"
BRIDGE SIDE PLATING60				DOUBLE	7/8"	3.3	3R	7/8"	3 1/8"	"
FORE'C'TLE SIDE PLATING			.41			SINGLE	3/4"	3.0	1R	3/4"	2 5/8"	"

WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—		7		Casting or Forging.		Scantlings.		Maker's Name.		Any departure from approved plans to be noted.	
Extending to Upper Deck (Sec. 3 c)		7									
,, Deck next below		✓									
As per Rule		✓									
				STIFFENERS.							
Plating Thickness.				VERTICAL.		HORIZONTAL.					
				Scantlings.		Spacing.		Scantlings.		Spacing.	
MIDSHIP BULKHD, Upper two decks											
,, „ Second „											
,, „ Third „											
,, „ Holds				44'-26 11 x 3 1/2 x 45 29"		✓		✓			
COLLISION „ (in Hold)				49'-26 8 x 3 x 38 24"		2 SEMIBOX BEAMS		CHAIN LOCKER FLAT.			
AFTER PEAK „ „				48'-30 6 x 3 x 40 24"		TUNNEL RECESS.					

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open Hearth process.*
Steel Company of Scotland Ltd; Lanarkshire Steel Company Ltd; Colvilles Ltd;
Consett Iron Company Ltd; Skinningrove Iron Company Ltd;
 Has the Steel been tested as required by the Rules? *Yes.*

EQUIPMENT No 37594-57										LETTER Z		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.			
47428	1st Bower ...	64	0	14	Stockless.			50	12	2	0	63¾	BRITANNIC	R. SYKES & SONS. ¹	CRADLEY HEATH 26.10.33
47429	2nd "	64	0	7	"			50	10	0	0	63¾	D°	D°	D°
47422	3rd "	55	0	18	"			45	9	0	7	54½	D°	D°	D°
	Collective weight.	183	1	11								182			
47419	Stream	17	2	6	4	1	26	18	12	2	0	17½	ORDINARY.	D°	D°

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.
35879	270	2 $\frac{1}{4}$	91 $\frac{1}{2}$	127 $\frac{1}{2}$	683-0-0			682 $\frac{1}{4}$	270	2 $\frac{1}{4}$	STUD LINK	R. SYKES & SONS ^{L^d}	CARDIFF. 20-10-33 L. L. WRIGHT.	TOWLINE...	120	4 $\frac{3}{4}$	64.6	120	4 $\frac{3}{4}$
														HAWSERS & WARPS	2290	2 $\frac{3}{4}$	21.1	2290	2 $\frac{3}{4}$
														"	2290	2 $\frac{1}{2}$	17.7	2290	2 $\frac{1}{2}$
														"	2290	3	25.7	✓	✓
Iron Stream Chain or Steel Wire	90	4 $\frac{3}{4}$	64.6						90	4 $\frac{3}{4}$	9.5 H.								

Steering Gear, Steam by Hartie & Co. Suenock. Steering Gear, Hand by relieving tackle to Hoop Winch.
Boats 2 Lifeboats & 2 Buzs Steering Chains, Size and Test Selenotor Gear. Windlass Steam by Emerson Walker, L.
Ceiling in Holds, thickness and material 2 $\frac{1}{2}$ " W.P. throughout holds. Cargo Battens, thickness, material and spacing 6" x 2" W.P. spaced 9" apart in Holds & Bridge Space.
Cargo Hatchways.-(Upper Deck) Steel beamings & angles. Thickness of Hatches 3" Solid covers.
Size of No. 1 Hatchway (Forward) 24'3 $\frac{1}{2}$ " x 24'-0" No. 2 33'-1 $\frac{1}{2}$ " x 20'-0" No. 3 22'-1" x 20'-0" No. 4 35'-4" x 20'-0" No. 5 23'-3 $\frac{1}{2}$ " x 24'-0" No. 6 ✓
Number of Shifting Beams and/or Fore and Afters No. 1 Hatch 4 webs; No. 2 Hatch 6 webs; No. 3 Hatch 4 webs; No. 4 Hatch 6 webs; No. 5 Hatch 5 webs.

Builder's Signature For LITHGOWS LIMITED. L. Campbell

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel Yes (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo ✓ 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 & 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 as required by the Rules & found satisfactory.

Weather Decks; Shaft Tunnel; W.T. Bulkheads; & the Chain Locker were hose tested & found satisfactory.

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

Duplicate Classification Certificates requested.

The amount of Entry Fee £ 9 : 0 : 0
Special Survey Fee.... £ 327 : 1 : 0
FREEBOARD
Travelling Expenses, if any £ 16 : 0 : 0

Fees applied for,
24th JAN 1934
Received by me,
31-1-1934

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

State whether the Vessel has been built under Special Survey yes

Signature R. Dundmuir

Surveyor to Lloyd's Register of Shipping.

DUPLICATE Certificate to be sent to Glasgow Date of issue 7/2/34

Committee's Minute **GLASGOW 30 JAN 1934**

Character assigned **+ 100A1**

1, 34.

Lloyd's A.C.P.

+ L.M.C. 1, 34. F.D.

Exhaust Turbine driving
Steam compressor.



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Lloyd's Register Foundation

W175-0094(212)

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. "HARBURY" Grk Rep No 19636

List of Plans.

Midship Section: Profile & Becks; Sternframe; Rudder; Bulkheads; Tunnel;
Side Stringers; Cruiser Stern; Hatches; Strengthening at Bridge Ends;
Hatch-end Beams; Additional Strengthening in Double Bottom forward; Escape Hatches;
Pumping Arrangements;
Midship Section: Profile & Becks; (As built).

Forging Reports: Sternframe; Rudder; Quadrant & Liller; Stem;

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	WEIGHT HEAD & PIN 40-1-19	SURVEYOR'S INITIALS R.L.	No CERTIFICATE 3590	DATE OF TEST. 29-9-33
	2nd "	40-1-5	R.L.	3589	29-9-33.
	3rd "	34-0-22	R.L.	3572	13-9-33.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 38' 38" ft., R.Q.D. ☒ ft., Bridge 27' 6" ft., Forecastle 33' 88" 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 DK (STL)

Official No. 163434 : Signal Letters

Is bottom of Vessel coated with cement Yes if not give

particulars of composition BOTTOM WHOLLY CEMENTED THROUGHOUT

PARTICULARS OF WATER BALLAST.—

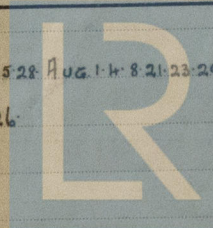
Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	130.29	420	Fore peak tank,		140
Double bottom, under Engines and Boilers,			After peak tank,		212
Double bottom, if under Engines only .	22.08	112	Deep tank, aft,		
Double bottom, if under Boilers only ; DRY TANK (W.T.C)	17.66	6	Deep tank, forward,		
Double bottom, forward,	183.29	804	Other tanks, if fitted,		
Total capacity of double bottom		1336	(If necessary, furnish further information by sketch.)		

Order for Special Survey No 3341

Date 15th MARCH 1933.

Dates of Surveys held while building

(1933) MAR. 31. MAY. 1. 11. 15. 18. 23. 26. JUNE 1. 6. 13. JULY 14. 14. 25. 28. AUG. 1. 4. 8. 21. 23. 29. SEPT. 20. 24. OCT. 3. 5. 10. 13. 23. 24. 31. NOV. 2. 3. 4. 9.
13. 15. 16. 14. 21. 22. 23. 24. 24. 28. 29. 30. DEC. 1. 4. 5. 29. (1934) JAN. 15. 26



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