

STEEL STEAMER ~~OR~~ MOTORSHIP.

Received at London Office. -6 JUL 1932

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 30th June 1932 Port of GREENOCK No. 19426
 Survey held at PORT-GLASGOW Date First Survey 31st August 1932 Last Survey 27th June 1932

On the (State if Machinery fitted Aft and of Single, Twin or Triple Screw) SINGLE SCREW "HARMANTEH"State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) FULL SCANTLING State Type of Erections POOP BRIDGE, FOCETONNAGE under Tonnage Deck... 4948.29CLASS 100A1State if with freeboard as condition of Class NoBuilt at PORT-GLASGOWDo. 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 425.0Breadth (greatest moulded) B 56.0Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 28.751st Longitudinal Number (L x D) = 12218.752nd Numeral L x (B + D) = 36018.75Framing Depth "d," at middle of length. See Sec. 3 (1d) 24.52Proportions—Depth to Length—Uppermost continuous deck to top of keel 14.78Do. Long Bridge to top of keel 11.25Draught Moulded 24'-7 1/4"Launched 24th MAY 1932 Yard No. 854Builders LITHGOWS LIMITEDOwners WILLIS STEAMSHIP COMPANY LIMITEDManagers J & C HARRISON, LTD.

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

Residence 66 MARK LANE, LONDON.Port of Registry LONDON.

If surveyed while building, afloat, or in dry dock

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

PILLARS AND DECKS.

PILLARS, No. of Rows.....	INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
	INCHES	FEET		INCHES	FEET
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					
Third Deck.					
Stringer Plate, breadth and thickness.....					
If Plated, state thickness.....					
Fourth Deck.					
Stringer Plate, breadth and thickness.....					
If Plated, state thickness.....					
Poop Deck.					
Stringer Plate, breadth and thickness					
Plating, Sheathing, material and thickness					
Bridge Deck.					
Stringer Plate, breadth and thickness.....					
Plating, Sheathing, material and thickness					
Forecastle Deck.					
Stringer Plate, breadth and thickness.....					
Plating, Sheathing, material and thickness					

SHELL PLATING.

SCANTLINGS.						EDGES.				RIVETING.				
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	State if Joggled? <i>ORDINARY.</i>	BUTTS.		No. of ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.		
	AMIDSHIPS.		FORWARD.				SINGLE OR DOUBLE.	RIVETS.		Diam.	Spacing or to CR.			
	Breadth.	Thickness.	Thickness.	Thickness.				Diam.					Spacing or to CR.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.			Inches.	Spacing or to CR. Inches.		
FLAT PLATE KEEL	49	1.78	1.68	1.68		DOUBLE	7/8	3.4	4R-3R	1	4	LAPPED.		
" Data (if any)	1 2	1.60				"	"	"	3R	7/8	3 1/2	"		
BOTTOM PLATING, No. of Strakes	3 2	1.61	1.60	1.46	46 FORWARD	"	"	"	"	"	"	"		
BILGE PLATING, No. of Strakes			1.61	1.60	46 FORWARD	"	"	"	"	"	"	"		
SIDE PLATING, No. of Strakes			1.60	1.69	44 FORWARD	"	"	"	"	"	"	"		
UPPER DECK, Sheer- strake in Wells.....	80	1.02 AFT 1.04 FORWARD	1.44	1.44		"	1"	3.9	4R-3R	1 1/2	5	"		
UPPER DECK, Sheer- strake in Bridge ...			1.60			"	7/8	3.4	3R	7/8	3 1/2	"		
STRAKE BELOW Sheer- strake in Wells.....			1.66 AFT 1.72 FORWARD	1.53	FORWARD 60 TO 44	"	1"	3.9	3R	7/8	3 1/2	"		
STRAKE BELOW Sheer- strake in Bridge ...			1.60			"	7/8	3.4	3R	7/8	3 1/2	"		
POOP SIDE PLATING					1.38		SINGLE	3/4	3	1R	3/4	2 1/2	"	
BRIDGE SIDE PLATING ...			1.60			DOUBLE	7/8	3.4	3R	7/8	3 1/2	"		
FORECASTLE SIDE PLATING					1.42		SINGLE	3/4	3	1R	3/4	2 1/2	"	

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

STIFFENERS.

	Plating Thickness.	VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper two decks					
" " Second					
" " Third					
" " Holds					
COLLISION (in Hold)					
AFTER PEAK					

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	T.S. POTTER & SONS LTD.	
STERN FRAME				
Propeller Post		10 1/2 x 7 1/2	DENNYSTOWN	
Rudder		13 x 8 1/2	FORGE	
RUDDER-Axle			TUTIN TYPE RUDDER.	
Speed of Vessel ... M.K.				
UPPER STOCK		10 1/2		
RUDDER mainpiece at head	FORGING	12 1/4	N. SOMERS	
" " heel		9	L.P.	
" " how constructed			BUILT FORGING.	
" " double or single plate		1.93		
" " coupling, vertical or horizontal			HORIZONTAL.	

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

STEEL. COLVILL & LTO ; CONSETT IRON CO LTD ; STEEL COMPANY OF SCOTLAND LTD ;

Has the Steel been tested as required by the Rules? YES.

EQUIPMENT No 38723.91

LETTER at

ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 23.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		CWTS.	QRS.	lbs.	CWTS.	QRS.	lbs.	CWTS.	QRS.	lbs.	CWTS.	QRS.	lbs.			
46655	1st Bower	69	2	21	Stockless			53	12	2	0		68	Britannia	R. Sykes & Sons Ltd	Badley Heath 29-2-32
46654	2nd "	66	3	0				51	19	1	14		68	"	"	" 29-2-32
46619	3rd "	59	0	7				47	16	2	7		58 1/2	"	"	" 23-2-32
	Collective weight.	195	2	0									194 1/2			
46620	Stream	19	0	0	4	3	14	19	17	2	0		19	Ordinary	"	" 29-2-32

CHAIN CABLES.

HAWERS AND WARPS.

Number of Certificate.	Length and size supplied.		Test per Certificate.	WEIGHT OF CHAIN CABLE.		Length and size per Table 23.	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 23.	
	Length.	Diam.		Supplied.	Per Rule.						Length.	Diam.		Length.	Diam.
35452	210	2 1/2	96 1/4	134 1/2	569-3-14	720 1/4	270	2 1/2	Steel Cable R. Sykes & Sons Ltd	Anchor 29-2-32	120	4 1/2	64 1/2	120	4 1/2
46809	160	2 1/2			162-0-14			"	"	Anchor 29-2-32	2090	2 1/2	21 1/2	2090	2 1/2
	270				732-0-0					Anchor 29-2-32	2090	2 1/2	17 1/2	2090	2 1/2
Stream	90	5	70.9				90	5	8.5 H		2090	3	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 2 1/2 W.P. LAID ON 2 BATTENS THROUGHOUT. Cargo Battens, thickness, material and spacing 2 1/2 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 24'-11" x 20'-0" No. 4 36'-8" x 20'-0" No. 5 32'-1" x 24'-0" No. 6 ✓

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

Builder's Signature

FOR LITHGOWS LIMITED.

R. 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 & 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 Double Bottom Tanks have also been constructed suitable to carry oil fuel.

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

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

The Pumping Arrangements in the Holds have been fitted in accordance with Approved Plan, & tested, & found satisfactory.

The amount of Entry Fee £ 9 : 0 : 0

Fees applied for,

Special Survey Fee.... £ 335 : 7 : 6

Received by me

FREE BOARD.

Travelling Expenses, if any £ 16 : 0 : 0

29th JUNE 1932

I am of opinion the Vessel should be Classed 100A1

State whether the Vessel has been built under Special Survey YES

Signature R. Dunsmeuir

Surveyor to Lloyd's Register of Shipping.

H.M. via Gls. Certificate to be sent to GREENOCK.

Date of issue 9/7/32

Committee's Minute GLASGOW 6-JUL-1932

Character assigned 100A1.

6.32.

Lloyds a/c.

+ L.M.C. 6.32.

70.



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Lloyd's Register of Shipping

W523-019072

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 "HARMATRIS" Ssk First Entry Rep No 19411

List of Plans.

Midship Section; Profile & Decks; Sternframe; Rudder; Bulkheads; Panking Arrangements; Strengthening in Double Bottom forward; Hatch-end beams; Nos 2 & 3 Hatch-side coaming; Large Hatches; Cruiser Stern; Profile showing W.T. Bulkheads; Bridge-end Strengthening; Tunnel; Bunkers; Pumping Arrangements; Midship Section & Profile & Decks (as built); Logging Reports—Sternframe; Rudder; Stem; Quadrant;

Particulars of Drop Test of	1st Bower	WEIGHT HEAD & PIN.	SURV INIT	N ^o CERTIFICATE	DATE OF TEST
Cast Steel Anchors, viz. :—		41 - 3 - 8	N.B.	9540	28.1.32
Weight, Surveyor's Initials,	2nd "	40 - 1 - 4	K.H.	8466	15.8.30
Number of Certificate, Date	3rd "	36 - 2 - 9	K.H.	8463	15.8.30
of Test.					

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 40.66 ft., R.Q.D. ✓ ft., Bridge 270.2 ft., Forecastle 37.88 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 DE (STL)

Official No. 162723

Signal Letters

Is bottom of Vessel coated with cement YES

if not given

particulars of composition WHOLLY CEMENTED THROUGHOUT.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	132.92	441	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 (W.T.C)	16.04		Deep tank, forward,		
Double bottom, forward,	189.08	824	Other tanks, if fitted,		
Total capacity of double bottom		1397	(If necessary, furnish further information by sketch.)		

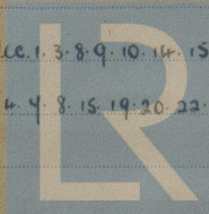
* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 3329

Date 10th September 1932

Dates of Surveys held while building

(1931) Aug. 31. Oct. 20. 24. 29. 30. Nov. 3. 5. 10. 12. 16. 18. 20. 25. 27. 30. Dec. 1. 3. 8. 9. 10. 14. 15. 17. 22. 23. 25. 30. (1932) Jan. 11. 14. 18. 21. 25. 28. Feb. 1. 3. 9. 16. 18. 23. 29. Mar. 4. 11. 15. 18. 22. 23. 30. Apr. 4. 8. 15. 19. 20. 22. 26. 28. 29. May 2. 3. 4. 9. 11. 12. 16. 19. 24. June 13. 15. 14. 27.



Lloyd's Register
Foundation
Total No. of Visits 40