

STEEL STEAMER or MOTORSHIP.

Received at London Office 21 SEP 1927

State if Report has been sent on the Freeboard of the Vessel No. ASSIGNED BY BOARD OF TRADE.

State if Report is sent on the Machinery of the Vessel Yes.Date of completion of report 14th SEPTEMBER 1927 Port of GREENOCK No. 19762Survey held at GREENOCK Date First Survey 25th February 1924 Last Survey 8th September 1927On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) No. TWIN SCREW "LAHEJ"State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) FULL SCANTLING State Type of Erections NONE

TONNAGE under Tonnage Deck <u>279.04</u>	CLASS <u>100 A.I.</u> State if with freeboard <u>No.</u>	Built at <u>GREENOCK</u>
	<u>"FOR TOWING SERVICES"</u> as condition of Class	Launched <u>19th July 1927</u> Yard No. <u>796</u>
Do. of space or spaces between Tonnage Deck and Upper Dk. <u>✓</u>	Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) <u>L 120.0</u>	Builders <u>MESSRS. HARLAND & WOLFE LTD.</u>
Total <u>279.04</u>	Breadth (greatest moulded) <u>B 27.0</u>	Owners <u>PENINSULAR & ORIENTAL STEAM NAV. CO.</u>
Gross Tonnage <u>283.42</u>	Depth , at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) <u>D 13.0</u>	Managers <u>✓</u> (Where necessary to be entered in Reg. Book.)
Register Tonnage <u>92.90</u>	1st Longitudinal Number (L × D) <u>= 1560</u>	Residence <u>LONDON</u>
	2nd Numeral L × (B + D) <u>= 4800</u>	Port of Registry <u>GREENOCK</u>
REGISTERED DIMENSIONS. FEET.	Framing Depth "d," at middle of length. See Sec. 3 (1d) <u>11.58</u>	If surveyed while building, afloat, or in dry dock <u>AND IN DRY DOCK.</u>
Length <u>120.0</u>	Proportions—Depth to Length—Uppermost continuous deck to top of keel <u>9.23</u>	Yes <u>✓</u>
Breadth <u>27.15</u>	Do. Long Bridge to top of keel <u>✓</u>	
Depth <u>12.2</u>	Draught Moulded <u>✓</u>	

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.
Spacing amidships <u>22</u>	<u>✓</u>		Bracket Floors, Frame <u>22</u>	<u>✓</u>	
from $\frac{1}{2}$ length to Collision bulkhead <u>22</u>	<u>✓</u>		Reversed Frame <u>22</u>	<u>✓</u>	
in peaks <u>22</u>	<u>✓</u>		Vertical Struts <u>22</u>	<u>✓</u>	
FRAMING.			Centre Girder , depth and thickness amidships		
Amidships, Angle, <u>E or F</u>	<u>5 3 40</u>	<u>✓</u>	top Angles <u>5 3 40</u>	<u>✓</u>	
Extends up to <u>DECK</u>	<u>✓</u>		bottom Angles <u>5 3 40</u>	<u>✓</u>	
Reversed Frame Amidships, Angle <u>IN</u>	<u>3 3 40</u>	<u>✓</u>	Side Girders , No. each side and thickness		
LINE SPACE Y UNDER BOILER BEARERS	<u>✓</u>		Margin Plate depth (excl. of flange) and thickness		
Extends up to <u>ACROSS FLOORS ONLY</u>	<u>✓</u>		Vertical Angle to Tank side		
of Framing Girder <u>5</u>	<u>✓</u>		Bracket abaft $\frac{1}{2}$ len. from stem		
es in Uppermost Continuous 'tween Decks , Angle, <u>E or F</u>	<u>✓</u>		Vertical Angle to Tank side		
Second 'tween Decks , Angle, <u>E or F</u>	<u>✓</u>		Bracket forward $\frac{1}{2}$ len. from stem		
Third <u>✓</u>	<u>✓</u>		Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem		
ing in Peaks , Angle <u>E or F</u>	<u>4 2 34</u>	<u>✓</u>	Gussets, spacing and scantling forward $\frac{1}{2}$ len. from stem		
eter and Spacing of Rivets through Shell Plating <u>3/4 5/4</u>	<u>✓</u>		Tank Side Brackets , height above base line at toe of Frame and thickness		
if Frame Joggled <u>JOGGED</u>	<u>✓</u>		INNER BOTTOM PLATING.		
NG ARRANGEMENTS (Sec. 7), state system and particulars			Breadth and thickness of Middle Line Strake		
NGTHENING OF BOTTOM FOR <u>✓</u>			Thickness of remainder in Holds		
ARD , State Particulars			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?		
E BOTTOM.			BEAMS.		
rs , Depth and thickness at mid-line in Holds <u>17 1/4 34</u>	<u>✓</u>		Uppermost Continuous Deck , amidships <u>5 3 40</u>	<u>✓</u>	
Height of Brackets at side above base line at toe of frame			in Wells, Angle, <u>E or F</u>	<u>✓</u>	
iddle Line Keelson , on Floors, Angles <u>12 1/2 60 x 3 1/2 x 3 1/2 44</u>	<u>✓</u>		in way of Bridge, Angle, <u>E or F</u>	<u>✓</u>	
<u>E or F</u>	<u>✓</u>		Spacing <u>ON EVERY FRAME</u>		
Through Plate or Intercostal Plate			CABIN SOLE.		
Foundation Plate on Floors			Second Deck , amidships, Angle, <u>E or F</u>	<u>3 2 38</u>	
Flat Plate Keel Angles			Spacing <u>ON ALT. FRAMES</u>		
Side Keelsons , No. each side <u>ONE</u>	<u>✓</u>		Third Deck , amidships, Angle, <u>E or F</u>	<u>✓</u>	
thickness of Intercostal Plate			Spacing		
Angles <u>5 x 5 49 5 x 4 x 39</u>	<u>✓</u>		Fourth Deck , amidships, Angle, <u>E or F</u>	<u>✓</u>	
DOUBLE BOTTOM.			Spacing		
Solid Floors , thickness and spacing			Poop Deck , Angle, <u>E or F</u>	<u>✓</u>	
Are Frame and Reversed Frame joggled?			Spacing		
Bracket Floors , breadth and thickness at middle line			Bridge Deck , Angle, <u>E or F</u>	<u>✓</u>	
breadth and thickness at margin plate			Spacing		
			Forecastle Deck , Angle, <u>E or F</u>	<u>✓</u>	
			Spacing		

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>ONE</i>			Stringer Plate, breadth and thickness in way of Bridge		
" in tween Decks , Size and Spacing.....	<i>2 1/2" & SPACED</i>	/	Thickness of Plating abreast Deck openings) in way of Wells		
" " " " "	<i>AS PER APP.^d</i>	/	Thickness of Plating abreast Deck openings) in way of Bridge		
" in Holds " "	<i>PLANS.</i>	/	If Sheathed, material and thickness		
" " " " "			Third Deck.		
Centre Line Bulkhead.			Stringer Plate, breadth and thickness.....		
Stiffeners and Spacing			If Plated, state thickness.....		
Plating, thickness of			Fourth Deck.		
STRINGERS AND DECKS.			Stringer Plate, breadth and thickness.....		
Uppermost Continuous Deck.			If Plated, state thickness		
Stringer Plate, breadth and thickness in Wells		<i>.28.</i> /	Poop Deck.		
" " " " in way of Bridge			Stringer Plate, breadth and thickness		
" Angle in Wells	<i>3 3 .34</i>	/	Plating, Sheathing, material and thickness ...		
Thickness of Plating abreast Deck openings) in way of Wells		<i>.28.</i> /	Bridge Deck.		
Thickness of Plating abreast Deck openings) in way of Bridge			Stringer Plate, breadth and thickness.....		
If Sheathed, material and thickness	<i>TEAK. 2 1/2"</i>	/	Plating, Sheathing, material and thickness ...		
Second Deck			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells....			Stringer Plate, breadth and thickness.....		
			Plating, Sheathing, material and thickness ..		

SHELL PLATING.

[illegible]

WATERTIGHT BULKHEADS.

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

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

 " Deck next below.....1.

As per Rule.....4.

			STIFFENERS.				
			Plating Thickness.	VERTICAL.		HORIZONTAL.	
				Scantlings.	Spacing.	Scantlings	Spacing.
MIDSHIP BULKHEAD, Tween decks...							
"	"	"					
"	"	"					
"	"	"					
"	"	"					
"	"	"					
"	"	"					
"	"	"	HOLDS, OIL FUEL TANK.	36/30	B.A. 6 x 3 x 38	24'	9 x 38 x 3 x 3 x 44 C ONE.
"	"	"	Holds FREE TANK.	39/26	B.A. 6 x 3 x 30	24'	✓ ✓
COLLISION			(in Hold)	✓ 40/26	CENTRE DIVISION CHGIN. LOCKER	B.A. 6 x 3 x 30	24' ✓
AFTER PEAK			✓ 37/30	4 x 2 1/2 x 36 ANGLE	24' W.T. FLAT	✓

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	✓	ROLLED STEEL. $6\frac{1}{2} \times 1\frac{5}{16}$	✓	D. COLVILLE & SONS.
STEM	✓	" " ✓ $5\frac{7}{8} \times 1\frac{1}{8}$	✓	" "
STERN FRAME	Propeller Post Rudder "	IRON. FORGING $6\frac{1}{2} \times 2\frac{1}{2}$		ENTERSON, WALKER & THOMPSON.
RUDDER—A × D	✓	82.	✓	
Speed of Vessel		11 KNOTS.	✓	
RUDDER mainpiece at head ...	✓	IRON. $5\frac{1}{4}$.	✓	" " "
" " heel ...	✓	FORGING. 4.	✓	
" how constructed	✓	BUILT. FORGING.	✓	
" double or single plate		58.	✓	
" coupling, vertical or				
" horizontal				

STEEL.

✓ Manufacturer's name or trade mark of the Steel used in the construction of the Vessel (state process of manufacture) OPEN HEARTH. D COLVILLE & SONS
✓ W. BEARDMORE & CO, LANARKSHIRE STEEL CO.
✓ Has the Steel been tested as required by the Rules? YES.

EQUIPMENT No. 4800.												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.	Cwts.					
30079	1st Bower ...	8	2	7	STOCK/LESS			10	15	0	0	8	1	0	BYER'S IMPROVED	✓	S'LAND 7/6/27 J.H BUTLER.
30078	2nd „ ...	8	1	14				10	10	0	0	8	1	0	“ “	✓	“ “ “ “
	3rd „ ...																
	Collective weight.	16.	3.	21.	/							16.	2	0.			
30080	Stream	3.	2	14				6.	0	3.	21.	3.	2	0.	“ “	✓	“ “ “ “

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.									
	Fathoms.	Ins.	Tons.	Tons.	Cwts. qrs. lbs.	Cwts.	Fathoms.	Ins.						TOWLINE...	Fathoms.	Ins.	Tons.	Fathoms.	Ins.
40275	120.	1 1/8	22 3/4	34 1/8	78. 1. 7.	77. 2. 10.	120.	1 1/8	STUD.	✓	CROLEY HEATH 10/6/27.			HAWSERS & WARPS	100.	4	33.	100.	4
15324											S.C. PAUL.				60.	6	85.	60.	6
Lean Stream Chain or Steel Wire	60	3/4	6 3/4	13 1/2	19. 3. 0.	18. 3. 0.	60	3/4	SHORT LINK.	✓	S'LAND 23/5/27.			"	75.	3	18.	75.	3
											J.H. BUTLER.			"	90.	6	✓	90.	6
														"	90.	1 1/2	✓	90.	1 1/2

Steering Gear, Steam
By DONKIN & CO.
Steering Gear, Hand
RELIEVING TACKLES WORKED FROM STEAM CAPSTANS.

Boats
2. STEEL LIFE BOATS.
Steering Chains, Size and Test
1 3/16"
7. 18. 0. 0.
Windlass
STEAM BY EMERSON WALKER & THOMPSON.

CABIN SOLE.
Ceiling in Holds, thickness and material
2 1/2" O.P.
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
✓

For HARLAND AND WOLFF, LIMITED
Builder's Signature
J.W. Thompson

GENERAL DECLARATION
This vessel has been built in accordance with the approved plans, instructions & printed rules of this Society. The materials and workmanship are of good quality. The fore & after peak tanks & boiler feed tanks have been tested have been tested as required by the rules for water ballast compartments. The oil fuel bunkers have been tested & Sec. 35 of the rules complied with, and the bulkheads & weather deck have been hose tested.

The amount of Entry Fee £ 3. : 0. : 0.
Special Survey Fee.... £ 28. : 6. : 0.
Travelling Expenses, if any £ : : ✓
Fees applied for, 15th Sept. 1924
Received by me, 15.10.27
I am of opinion the Vessel should be Classed 100 A1.
FOR TOWING SERVICES
State whether the Vessel has been built under Special Survey YES.
Signature A.P.W. W. Rab
Surveyor to Lloyd's Register of Shipping.
Certificates to be sent to Greenock via Glasgow Date of issue 17/10/27

Committee's Minute GLASGOW 20 SEP 1927
Character assigned 100 A1
For Towing Services
9.27.
Lloyds arcp
+ LMC 9.27.
Fitted for oil fuel 9.27 J.P. above 150° F.
TUES. 4 OCT 1927
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0296 2 1/2

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.)

The following approved plans are forwarded with this report.

Midship Section. Profile Plan. Main deck plan. Stern frame & rudder
Propeller brackets. Rudder quadrant W. T. Bulkheads & boiler feed tank
Oil fuel bunkers. Pumping arrangements. (9 plans).

also reports on Iron forged rudder frame, Iron forged stern frame
and cast steel shaft brackets.

Midship Section & Profile Plans of Ship as built.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	HEAD ONLY.	5.	1.	11	J.M.	22/12/26.
	2nd "	"	5.	1.	8.	"	"
	STRENGTH.	"	"	"	"	"	"
	3rd "	"	2.	1.	20.	M.R.	22/10/25.

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

No. and Material of Decks and No. of tiers of Beams (this information is to be given as it should appear in the Register Book)
10K: (STL - TEAK - 5).

Official No. 149384; Signal Letters
particulars of composition BITUMASTIC ENAMEL. If bottom of Vessel has been coated Inside ☒ give

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length.		Where Fitted.	*Length.	
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fore peak tank,		
Double bottom, under Engines and Boilers,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	After peak tank,		10.
Double bottom, if under Engines only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Deep tank, aft,		25.
Double bottom, if under Boilers only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Deep tank, forward,	7.32.	26.
Double bottom, forward,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Other tanks, if fitted,		
Total capacity of double bottom		<input checked="" type="checkbox"/>	(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. 3205

Date 23rd December, 1926.

Dates of Surveys held while building

(1924) Feb. 25. Mar. 19. 22. 26. 29. April 1. 6. 13. 18. 25. May 3. 10. 13. 14. 18. 24. 31. June 1. 3. 4. 10. 15. 20. 22. July 12. 18. 19. 26. Aug. 10. 30. Sept. 5. 6. 7. 8.

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Total No. of Visits 34