

State if Report is sent on the Machinery of the Vessel..... YES

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Single Screw Steamer "BELGRAVIAN" Machinery Amidships.

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Complete Superstructure with one tonnage opening aft. State Type of Erection 100%

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 338.75
LENGTH OVERALL. 361.00 Launched 27th April, 1937 Yard No. 1073.
Builder Mr. [illegible]

Gross Tonnage 3136.04 of beam at side of uppermost continuous } D 32.75 Owners ELLERMAN LINES, LTD.
deck. See Sec. 3 (1c) }
Register Tonnage 1401.28 1st Longitudinal Number (L x D)..... = 11094.06 Managers ELLERMAN, BARON & CO., LTD.

REGISTERED DIMENSIONS. Framing Depth "d." at middle of length. See 1983 Residence LIVERPOOL.

Length 345.60 Proportions—Depth to Length—Uppermost continuous deck to top of keel 10.34 Port of Registry LIVERPOOL.

Breadth 50.10 Do. Long Bridge to top of keel ☒ If surveyed while building, afloat, or in dry dock

Depth 20.70 Draught Moulded 22'-0 1/2" Whit Building and in Dry Dock

	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	29		Bracket Floors, Frame	6 3/8 .34	
" " from 3/8 length to Collision bulkhead.....}	27		" " Reversed Frame	5 1/2 3 -	
" " in peaks.....	24		" " Vertical Struts	8 3/8 3 1/2 .44	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	41 x .50	
Frame Amidships, Angle, E or C	11 x 3 1/2 x .43		" " top Angles	3 3 .44	
" " Extends up to	SECOND DECK.		" " bottom Angles	4 4 .48	
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	One @ .36	
" " Extends up to...	✓		Margin Plate depth (excl. of flange) and thickness	37 x .48	
Depth of Framing Girder	11		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	6 6 .40	
Frames in Uppermost Continuous 'tween Decks, Angle, E or C	7 1/2 3 1/2 .36		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	As per appd. mid section continuous .38	
" " Second 'tween Decks, Angle, [or C	✓		" " Gussets, spacing and scantling abaft 1/2 len. from stem.....	5- 1/2 rivets	
" " Third " " " " " " " "	✓		" " Gussets, spacing and scantling forward 1/2 len. from stem.....	No gussets, angd. as per appd. mid section.	
Framing in Peaks, Angle on [.....	8" 3" .39	APPROVED	Tank Side Brackets, height above base line at toe of Frame and thickness)	68 1/2 x .43	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8" Space 6 1/2" dia. sides, 7" " bottom.	8" x 3" .45 S.A.	INNER BOTTOM PLATING.		
State if Frame Joggled	YES.		Breadth and thickness of Middle Line Strake ...	7 1/2 x .48	Appd. 80" x .45"
PANTING ARRANGEMENTS (Sec. 7), state system and particulars)	12" = 3 1/2" x .45 S.A. with 4 1/2" x 3" x .40 Revers angle. 3 stringers .44" with 6" x 3 1/2" x .51 Ang. per hat. 2 keelsons 3' 6" apart 5 x 5" x .40 Frames 6" shell. Lws 7/8" dia. str's shell 4 1/2" apart.	APPROVED 4" x 3" .40 ANGLE.	Thickness of remainder in Holds	40 .48 UNDER HATCHES	
STRENGTHENING OF BOTTOM FORWARD. 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?.....	YES.	
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Walls, Angle, E or C	7 3 .41	
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, [or C	✓	
Middle Line Keelson, on Floors, Angles, [or C			Spacing	29	
" " Through Plate or Intercostal Plate...}			Second Deck, amidships, Angle, E or C	8 3 .37	
" " Foundation Plate on Floors			Spacing.....	29	
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, [or C		
Side Keelsons, No. each side			Spacing.....		
" " thickness of Intercostal Plate...			Fourth Deck, amidships, Angle, [or C		
" " Angles			Spacing.....		
DOUBLE BOTTOM.			Poop Deck, Angle, [or C		
Solid Floors, thickness and spacing	38" @ 58"		Spacing.....		
" " Are Frame and Reversed Frame joggled?.....}	YES		Bridge Deck, Angle, [or C		
Bracket Floors, breadth and thickness at middle line..... }	31 x .38		Spacing.....		
" " breadth and thickness at margin plate..... }	31 x .38		Forecastle Deck, Angle, E or C	6 3 .34	
			Spacing	24 x 27	

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.....	TWO.		Stringer Plate, breadth and thickness in way of Bridge	✓	
" in 'tween Decks, Size and Spacing.....	Riders and wide spaced pillars as per approved plans.		Thickness of Plating abreast Deck openings } in way of Wells.....}	.33	
" " " " "			Thickness of Plating abreast Deck openings } in way of Bridge	✓	
" in Holds " "	Riders and wide spaced pillars as per approved plans.		Thickness of Plating within line of openings...	.32	
" " " " "			If Sheathed, material and thickness	NO	
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....	✓		Stringer Plate, breadth and thickness.....		
Plating, thickness of	✓		If Plated, state thickness.....		
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells 7 1/2 = .54	Approved .48"		If Plated, state thickness		
" " " " in way of Bridge	✓		Poop Deck.		
" Angle in Wells 5 5 .52	Approved .48"		Stringer Plate, breadth and thickness		
Thickness of Plating abreast Deck openings } in way of Wells}	.44	Approved .40"	Plating, Sheathing, material and thickness ...		
Thickness of Plating abreast Deck openings } in way of Bridge	✓		Bridge Deck.		
Thickness of Plating within line of openings...	.39	Approved .35"	Stringer Plate, breadth and thickness.....		
If Sheathed, material and thickness	NO		Plating, Sheathing, material and thickness ...		
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells 7 1/2 = .40	Approved .36		Stringer Plate, breadth and thickness.....	.33	.34
			Plating, Sheathing, material and thickness32	

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? NO.			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.	Spacing cr. to cr. Inches.		Diam.	Spacing cr. to cr. Inches.		
FLAT PLATE KEEL	49	74	78	66		2R.	7/8	3 3/4	4R	1	4	LAPPED	
„ DBLG. (if any)	✓	✓	✓	✓		✓							
BOTTOM PLATING, No. of Strakes THREE ...	76 1/2	58	63	58		2R.	7/8	3 3/4	3R	7/8	3/8	LAPPED	
BILGE PLATING, No. of Strakes TWO	74	58	48	58		-	-	-	-	-	-	-	
SIDE PLATING, No. of Strakes TWO	78	58	48	44		-	-	-	-	-	-	-	
UPPER DECK, Sheer-strake in Wells.....	79	67	44	44	APPX. 78" x 65"	-	-	-	4R	-	3/2	-	
UPPER DECK, Sheer-strake in Bridge ...	✓	✓	✓	✓		✓							
STRAKE BELOW Sheer-strake in Wells.....	79	63	48	44	APPX. 78" x 59"	2R.	7/8	3 3/4	3R	7/8	3/8	LAPPED	
STRAKE BELOW Sheer-strake in Bridge ...	✓	✓	✓	✓		✓							
POOP SIDE PLATING	✓	✓	✓	✓		✓							
BRIDGE SIDE PLATING ...	✓	✓	✓	✓		✓							
FOREC'TLE SIDE PLATING	✓	✓	40	✓		2R	3/4	3	2R	3/4	2 5/8	LAPPED.	

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) ONE

„ Deck next below SIX

As per Rule SIX

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	Flat	Plate	Keel.	
STEM	Steel basting etc.	As per approved plan.	Steel basting of head.	
STERN FRAME {	Steel basting.	As per approved plan.	The Darlington Forge Co. Ltd.	
Propeller Post				
Rudder				
RUDDER—A × D	A = 105.07	D = 3.49	A × D 366.69	
Speed of Vessel	13 1/2	Knots.		
RUDDER mainpiece at head	Steel basting.	As per approved plan.	The Darlington Forge Co. Ltd.	
" " heel				
" how constructed	Built			
" double or single plate	Double Plate			
" coupling, vertical or horizontal	Horizontal			

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Siemens Martin Open Heart.*

PLATES:- The South Durham Steel & Iron Co., Ltd.; Norman Lang and Co., Ltd.;
ho. 185; Birmingham Iron Co., Ltd.; J. Tyzack & Co., Ltd.; Paine & Co., Ltd.; Schillies Ltd.; Lancashire Steel Co., Ltd.; Scott Bros. Ltd..

SECTIONS:- Norman Lang and Co., Ltd.; *large plate iron*

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

CHAIN CABLES.

HAWSERS AND WARPS.

For WILLIAM GRAY & CO. LIMITED.

FOR WILLIAM GRAY & CO. LIMITED
 HOS. S. Simpson
 GENERAL MANAGER

This vessel has been built in accordance with the Rules, the approved plans, and the Secretary's letter. The materials and workmanship are good. The double bottom tanks, and the fore and after peak tanks have been satisfactorily tested under water pressure as required by the Rules. The weather decks, watertight bulkheads, watertight doors and tunnel have been hose tested. The ash shoot has been tested whilst full of water. The watertight doors, steering gear, secondary means of steering, windlass and hand pumps have been tried under working conditions and found satisfactory.

Fireboards in accordance with the Convention Regulations have been marked on vessel's sides, cut in, verified and certificate issued.

The vessel is fitted with Wireless, Directional Wireless, Echo sounding device, and Electric light.

Fees applied for,

16th Sept., 1937.

Received by me,

12-10 193

We are

I am of opinion the Vessel should be Classed **X** 100 A 1
"with freeboard"

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

Signature: *B. Mullar and Hugh L. Walker*
Surveyors to Lloyd's Register of Shipping.

Certificate to be sent to WEST HARTLEPOOL. Date of issue 13/1/37

Committee's Minute

FRI 24 SEP 1937

Character assigned

+ 100 A1

with freeboard
Lloyds A.C.P. + Dec 9.37 78 CH 1st

White Muc

OL.

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.)

SISTER VESSEL.

WEST HARTLEPOOL REPORT NO. 17691.

S.S. "MALVERNIAN"

DRY DOCKING. 26TH AUGUST, 1937.

The vessel was placed in the Central Dry Dock, the bottom and rudder cleaned and recoated.

The vessel is for class 100 A1 "with freeboard" but the scantlings of the vessel comply with the requirements for a full scantling vessel.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	2nd "	3rd "	DATE.	INITIALS.	NUMBER.
	31 - 3 - 20	30 - 0 - 4	26 - 1 - 1	5/11/36	R.L.	5165
				11/12/36	W.H.	6082
				8/1/37	R.L.	5249

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 (this information is to be given as it should appear in the Register Book) 1 Dk. (stl.) & Shelter Dk. (stl.)

Official No. 164337 ; Signal Letters ☒ Is bottom of Vessel coated with cement Yes, as below if not give particulars of composition Cement in Nos. 4 & 5 Tanks. Cement Gillels in Nos. 1, 2, 3, 6 & 7.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	74.83	128	Fore peak tank,	13.5	24
Double bottom, under Engines and Boilers,			After peak tank,	10.0	11
Double bottom, if under Engines only,	41.08	138	Deep tank, aft,	/	/
Double bottom, if under Boilers only,	38.67	143	Deep tank, forward,	/	/
Double bottom, forward,	135.92	336	Other tanks, if fitted,		
Total capacity of double bottom		745	(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. 2391

Date 2nd, SEPTEMBER, 1936.

Dates of Surveys held while building

1936 SEPT. 11. 17. 21. Oct. 5. 12. 19. 20. 21. 23. 26. 29. 30. NOV. 2. 3. 4. 6. 10. 12. 20. 23. 25. 30. DEC. 1. 4. 9. 11. 16. 18. 30. 1937 JAN. 4. 7. 11. 13. 15. 19. 22. FEB. 2. 4. 10. 18. MAR. 3. 9. 12. 17. 22. 25. APR. 5. 8. 10. 13. 19. 27. 28. MAY. 3. 5. 14. 21. 28. JUNE. 8. 18. 21. 28. JULY. 2. 15. 26. 27. AUG. 18. 19. 20. 25. 26. 27. SEPT. 1. 2. 6. 7. 8.

Total No. of Visits 16