

STEEL STEAMER or MOTORSHIP.

Received at London Office 12 SEP 1928

State if Report has been sent on the Freeboard of the Vessel YESState if Report is sent on the Machinery of the Vessel YESDate of completion of report 14th September 1928Port of GREENOCKNo. 18954Survey held at PORT - GLASGOWDate First Survey 15th June 1924Last Survey 30th August 1928

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

SINGLE SCREW "BELLORADO"

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

FULL SCANTLINGState Type of Erections POOP, BRIDGE & FORETONNAGE under Tonnage Deck 4527.38CLASS * 100A1State if with freeboard as condition of Class NoBuilt 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 384'0"Launched 17th JULY 1928 Yard No. 805Total 4327.38Breadth (greatest moulded) B 51'75"Builders LITHGOWS LIMITEDGross Tonnage 4572.52Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 29'0"Owners THE BELLORADO STEAMSHIP COMPANY LIMITEDRegister Tonnage 2902.371st Longitudinal Number (L x D) = 11136Managers BELL BROS & Co.
(Where necessary to be entered in Reg. Book.)2nd Numeral L x (B + D) = 31008Residence 135 BUCHANAN STREET, GLASGOWREGISTERED DIMENSIONS.
FEET.Length 385'0"Framing Depth "d" at middle of length. See Sec. 3 (1d) 17'04"Breadth 52'0"Proportions—Depth to Length—Uppermost continuous deck to top of keel 13'24"Depth 26'6"Do. Long Bridge to top of keel 10'45"Draught Moulded 23'9 3/4"

If surveyed while building, afloat, or in dry dock

BUILDING & AFLOAT

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	28"		Bracket Floors, Frame	3' A	6 1/2 3 1/2 '34
" " from 1/4 length to Collision bulkhead	27"		" " Reversed Frame	B. A.	6 3 '34
" " in peaks	24"		" " Vertical Struts	B. A. PLATE	6 3 '34
SIDE FRAMING.			" " Vertical Struts	PLATE	24 '38
Frame Amidships, Angle, E or [	10 N.B.S. 3 1/2 '40		Centre Girder, depth and thickness amidships	4 1/2	'51
" " Extends up to	2nd DECK.		" " top Angles	3 1/2 3 1/2	'48
Reversed Frame Amidships, Angle			" " bottom Angles	4 4	'55
" " Extends up to			Side Girders, No. each side and thickness	1 2	'38
Depth of Framing Girder			Margin Plate depth (excl. of flange) and thickness	4 1/2	'49
Frames in Uppermost Continuous 'tween Decks, Angle, E or [	7 3 1/2 '35		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	5 5	'43
" " Second 'tween Decks, Angle, E or [			" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	6 6	'41
" " Third " " " "			" " Gussets, spacing and scantling abaft 1/4 len. from stem	3 1/2 3 1/2	'43 AT WEB FR SYSTEM
Framing in Peaks, Angle or [	8 3 '35 7 1/2 3 x '33		" " Gussets, spacing and scantling forward 1/4 len. from stem	3 1/2 3 1/2	'43 ANGLE GUSSETS ON EVERY FRAME
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 DIA & 6"		Tank Side Brackets, height above base line at toe of Frame and thickness	6 1/2	'43
State if Frame Joggled	YES.		INNER BOTTOM PLATING.		
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	WEB FRAME SYSTEM, WITH 3 SIDE STRINGERS BELOW 2nd DECK AS PER APPROV. PLAN.		Breadth and thickness of Middle Line Strake	75	'46
STRENGTHENING OF BOTTOM FORWARD. State Particulars	DOUBLE FRAMES & FLOORS FOR 36" L/W WITH ADDITIONAL GIRDER TO BOTTOM AS APPROVED.		Thickness of remainder in Holds		'41
SINGLE BOTTOM.			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.	
Floors, Depth and thickness at mid-line in Holds			BEAMS.		
Height of Brackets at side above base line at toe of frame			Uppermost Continuous Deck, amidships in Wells, Angle, E or [	8 N.B.S. 3 '36	O.B.S. 8 x 3 x '34
Middle Line Keelson, on Floors, Angles, E or [			" " in way of Bridge, Angle, E or [	8 1/2 3 '40	
" " Through Plate or Intercoastal Plate			" " Spacing	EVERY FRAME	
" " Foundation Plate on Floors			Second Deck, amidships, Angle, E or [	8 1/2 3 '42	8 1/2 x 3 x '44
" " Flat Plate Keel Angles			" " Spacing	EVERY FRAME	
Side Keelsons, No. each side			Third Deck, amidships, Angle, E or [
" " thickness of Intercoastal Plate			" " Spacing		
" " Angles			Fourth Deck, amidships, Angle, E or [
DOUBLE BOTTOM.			" " Spacing		
Solid Floors, thickness and spacing	38 EVERY 3rd FB		POOP DECK, Angle, E or [	8 1/2 3 '37	
" " Are Frame and Reversed Frame joggled?	YES.		" " Spacing	ALT FRAMES	
Bracket Floors, breadth and thickness at middle line	48 '38		Bridge Deck, Angle, E or [	7 3 '39	
" " breadth and thickness at margin plate	33 1/2 '38		" " Spacing	EVERY FRAME	
			Forecastle Deck, Angle, E or [	10 3 1/2 '40	10 x 3 1/2 x '42
			" " Spacing	ALT FRAMES	

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.....		2 Rows							
" in 'tween Decks, Size and Spacing.....		WIDE SPACED PILLARS & DEEP							
" " " " "		GIRDERS IN HOLDS & 'TWEEN DECK							
" in Holds		AS PER APPROVED PLANS.							
" " " " "		CENTRE ROW OF PILLARS FITTED AS REQUIRED BY OWNERS FOR SHIFTING BOARDS.							
Centre Line Bulkhead.									
Stiffeners and Spacing.....									
Plating, thickness of									
STRINGERS AND DECKS.									
Uppermost Continuous Deck.									
Stringer Plate, breadth and thickness in Wells		55	86						
" " " " in way of Bridge		55	38						
" Angle in Wells		6	6	86					
Thickness of Plating abreast Deck openings in way of Wells			57						
Thickness of Plating abreast Deck openings in way of Bridge			38	34					
Thickness of Plating within line of openings...		WELLS	40						
		BRIDGE	32						
If Sheathed, material and thickness									
Second Deck.									
Stringer Plate, breadth and thickness in Wells...		70	38						
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		34	34						
Plating, Sheathing, material and thickness			34						
Bridge Deck.									
Stringer Plate, breadth and thickness.....		55	36	47					
Plating, Sheathing, material and thickness			42	35					
Forecastle Deck.									
Stringer Plate, breadth and thickness.....		34	34						
Plating, Sheathing, material and thickness		30	30						

SHELL PLATING.

SCANTLINGS.					RIVETING.									
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.					
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	ORDINARY.	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	76	66	66		DOUBLE	1"	4"	4R - 3R	1"	4"	LAPPED.		
" DECK (if any)														
BOTTOM PLATING, No. of Strakes 4		60	46	48		"	7/8"	3 1/2"	3R	7/8"	3 1/8"	"		
BILGE PLATING, No. of Strakes 2		60	46	48		"	"	"	"	"	"	"		
SIDE PLATING, No. of Strakes 3		58	44	46		"	"	"	"	"	"	"		
UPPER DECK, Sheer- strake in Wells.....	50 1/2	86	44	44		"	1"	4"	5R - 3R	1"	4 1/2"	"		
UPPER DECK, Sheer- strake in Bridge ...		60				"	7/8"	3 1/2"	3R	7/8"	3 1/8"	"		
STRAKE BELOW Sheer- strake in Wells.....		76	44	44		"	1"	4"	4R - 3R	1"	4"	"		
STRAKE BELOW Sheer- strake in Bridge ...		60				"	7/8"	3 1/2"	3R	7/8"	3 1/8"	"		
POOP SIDE PLATING				38		SINGLE	3/4"	3"	1R	3/4"	2 5/8"	"		
BRIDGE SIDE PLATING ...		56				DOUBLE	7/8"	3 1/2"	3R	7/8"	3 1/8"	"		
FORE'TLE SIDE PLATING			40			SINGLE	3/4"	3"	1R	3/4"	2 5/8"	"		

WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

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

		STIFFENERS.			
VERTICAL.	HORIZONTAL.	Plating Thickness.			
		Scantlings.	Spacing.	Scantlings.	Spacing.
		ANG			
MIDSHIP BULKHD.	Upper tween decks	27-26	5 x 3 x 32	28 1/2	-
"	" Second "	-	-	-	-
"	" Third "	-	-	-	-
"	" Holds	41-29	11 x 3 1/2 x 46	28 1/2	-
COLLISION	" (in Hold)	50-32	9 1/2 x 3 1/2 x 52	24	ONE SEMI BOX BEAM
AFTER PEAK	"	50-30	6 1/2 x 3 1/2 x 38	24	TUNNEL RECESS.

		CASTINGS.			
		CASTING or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar		✓			
STEM		ROLLED STEEL BAR	9 1/4 x 2 3/8	PORTLAND FORGE	
STERN FRAME		{ Propeller Post Rudder	CASTING 10 1/2 x 7 1/4	HANIEL &	
			" 9 x 7 1/4	LUEG.	
RUDDER—A x D		438.6			
Speed of Vessel		10 K.			
RUDDER mainpiece at head		FORGING.	9 1/2	HITKOWITZER BERGHAU & EISENH.	
" " heel			7 1/4		
" how constructed			BUILT FORGING.		
" double or single plate			SINGLE PLATE 1' 06		
" coupling, vertical or horizontal			VERTICAL		

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *OPEN HEARTH PROCESS.*
Lanarkshire Steel Co. Ltd.; Jas. Dunlop & Co. Ltd.; Connell Iron Co. Ltd.;
and Beadmore & Co.; A. Colville & Sons Ltd.; Steel Company of Scotland Ltd.
 Has the Steel been tested as required by the Rules? *YES.*

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

12 SEP 1928

EQUIPMENT No. 32429

LETTER X

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.				
30966	1st Bower ...	60	1	7	Stockless			48	12	2	0	60	BYERS IMPROVED.	NOT STATED.		SUNDERLAND 19.4.28
30970	2nd „ ...	60	1	7	„			48	12	2	0	60	D°	D°		J. H. BUTLER.
30964	3rd „ ...	51	0	7	„			43	1	2	7	50½	D°	D°		D° 20.4.28
	Collective weight.	171	2	21								170½				D° 19.4.28
89423	Stream	16	2	0	# 2 0			17	16	1	0	16½	ORDINARY.	D°		NETHERTON 22.10.27. H. GREEN.

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.		Length.	Cir.
84170	135	2 1/4	86 3/4	120 3/4	324-0-9	645 3/4	270	2 3/16	STUB LINK.	NOT STATED	NETHERTON 20.10.27	TOWLINE	120	4 1/4	147	120	4 1/4
84175	135	"	"	"	324-3-0				"	"	H. GREEN.	HAWSERS & WARPS	2290	2 1/4	152	2290	2 1/4
	270	"	"	"	648-3-9				"	"	D° 31.10.27.	"	2290	2 1/2	122	2290	2 1/2
Iron Stream (Steel Wire)	90	4 3/4	47				90	4 3/4	G.S.N.			"					

Steering Gear, Steam BY MACGREGOR & Co PORT-GLASGOW.

Steering Gear, Hand BY RELIEVING TACKLE TO POOP WINCH.

Boats 2 LIFEBOATS, 1619 & 1010NGHY.

Steering Chains, Size and Test 1 3/8 DIA SHORT LINK 22 5/8 TONS

Windlass STEAM BY CLARKE CHAPMAN & Co.

Ceiling in Holds, thickness and material 2 1/2" W.P. UNDER HATCHES ONLY.

Cargo Battens, thickness, material and spacing 6" x 2" W.P. SPACED 9".

Cargo Hatchways.-(Upper Deck)

STEEL PLATES & ANGLES.

Thickness of Hatches

2 1/2" SOLID COVERS.

Size of No. 1 Hatchway (Forward) 24'9" x 19'0" No. 2 28'0" x 19'0" No. 3 35'0" x 19'0" No. 4 25'8" x 19'0" No. 5 14'0" x 19'0" No. 6

BRIDGE HATCH.

Number of Shifting Beams and/or Fore and Afters No. 1 HATCH 4 WEBS; No. 2 HATCH 5 WEBS; No. 3 HATCH 6 WEBS; No. 4 HATCH 5 WEBS; BRIDGE HATCH 2 WEBS.

Builder's Signature

FOR LITHGOWS LIMITED.

GENERAL DECLARATION

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 is good & the materials used in the vessel's construction are also good.

All the Double Bottom Tanks, after Peak Tank, Deep Tank & the Fore Peak were tested as required by the Rules & found satisfactory.

The weather decks, shaft tunnel & H. T. Bulkheads were also tested & found satisfactory.

Freeboard verified & marks put in on vessel's sides.

Copy of letter from Owners regarding Lower Deck Bulkhead aft attached.

The amount of Entry Fee £ 8 : 0 : 0

Special Survey Fee.... £ 303 : 13 : 0

FREEBOARD.

Travelling Expenses, if any £ 9 : 3 : 4

Fees applied for,

1st SEPTEMBER 1928

Received by me,

10th SEPTEMBER 1928

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

INTERMEDIATE TWEEN D° BHP IN AFTER HOLD DISPENSED WITH.

4 BHP° TO UPPER D°; 2 BHP° TO SECOND D°

State whether the Vessel has been built under Special Survey.

YES.

H+M

Certificate to be sent to GREENOCK.

Date of issue

27/9/28

Signature

R. Hunsmeit.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 11 SEP 1928

Character assigned

100A1

9.28.

Lloyd's A+C P

+ L.M.C 9.28. 72

Intermediate T.W.B. B.H. in after hold dispensed with
4 B.H. to upper D.K. 2 B.H. to 2nd D.K.



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Lloyd's Register
Foundation

0290212

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 "MARCELLA" Grk Reg L^o 18836.

List of Plans.

Midship Section; Profile & Decks; Stern Frame; Rudder; Buckheads; Deep Tank; after Peak Bld; Pumping Arrangements; 2nd Deck in way of Eng & Boiler Space; Pillars & Guides; Tunnel; Strengthening in Double Bottom Forward; Hatches; Modification to Pillars in Forward & after Holds; Pumping Arrangement. Midship Section; & Profile & Decks (as built). Logging Reports Sternframe; Rudder; 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. 38-1-0	SURV INITS MR	N ^o OF CERTIFICATE 628	DATE OF TEST. 4.4.28
	2nd "	40-1-7	J.L.	6959	13.4.28
	3rd "	32-1-7	K.H.	5155	28-3-28

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 33.42 ft., R.Q.D. ☒ ft., Bridge 112.0 ft., Forecastle 44.1 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)

2 DKS (STL)

Official No. 160221 ; Signal Letters

Is bottom of Vessel coated with cement ☒ Yes ☐ No if not give

particulars of composition PORTLAND CEMENT ON BOTTOM IN DRY TANK; PORTLAND CEMENT IN PEAKS; ELSEWHERE CEMENT FILLETS;

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	119	354	Fore peak tank,		
Double bottom, under Engines and Boilers,	21	82	After peak tank,		
Double bottom, if under Engines only,			Deep tank, aft,	30.33	784
Double bottom, if under Boilers only, DRY TANK.	18.67	576	Deep tank, forward,		
Double bottom, forward,	172.8	576	Other tanks, if fitted,		
Total capacity of double bottom	331.47	1012	(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. 3226

Date 18th June 1924

Dates of Surveys held while building

(1924) June 15 Aug 16 19 24 31 Sept 2 4 13 22 Oct 6 11 18 31 Nov 3 4 10 19 Dec 8 14 20 23 26 24 (1928) Jan 6 10 12 14 19 23 25 24 30 31 Feb 26 13 14 23 24 Mar 1 4 13 16 20 26 28 30 April 3 5 9 10 13 25 30 May 2 8 10 18 22 24 29 June 5 4 12 15 18 21 23 July 13 16 14 19 24 Aug 6 13 15 20 30

Total No. of Visits 48