

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

10<sup>TH</sup> NOVEMBER. 1939. Port of GREENOCK.

No. 1108 No. 20843.

Survey held at PORT GLASGOW.

Date First Survey 4<sup>th</sup> MARCH 1939. Last Survey 8<sup>th</sup> NOVEMBER 1939.

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

GLEN PARK.

## SINGLE SCREW - MACHINERY AMIDSHIPS

State Type (Full Scaffolding, Complete Superstructure with or without Tonnage Openings) COMPLETE SUPERSTRUCTURE WITH TONNAGE OPENING. State Type of Erections FORECASTLE-ON SHELTER DECK.

**TONNAGE under } 4636.99.**  
**Tonnage Deck... }**

CLASS  100.A.1.

State if with freeboard } YES.  
as condition of Class }

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 } L 425.0 v

Launched SEPTEMBER 28<sup>TH</sup> 1939 Yard No. 922

**Total**

**Breadth** (*greatest moulded*) ..... **B** 56.0 ✓

Builders LITHGOWS LIMITED.

**Gross Tonnage** 5136.00

Depth, at middle of length from top of keel to top of lower edge of uppermost continuous

Owners THE DENHOLM LINE STEAMERS LTD

**Register Tonnage** 3057.33

1st Longitudinal Number (L  $\times$  D)..... = 15193.75

Managers J & J DENHOLM.

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

**REGISTERED DIMENSIONS.**

**Length** 431.9.

**Framing Depth "d,"** at middle of length. See } 23-75  
 Sec. 3 (1d) ..... }

Residence GLASGOW

**Breadth** 56.2

**Proportions**—Depth to Length—Uppermost continuous deck to top of keel ..... } 11.56

Port of Registry GREENOCK

Depth 24.85.

Do. Long Bridge to top }  
of keel }

*If surveyed while building, afloat, or in dry dock*

**Draught Moulded** ..... 24' 7 $\frac{1}{4}$

BUILDING & AFLOAT.

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>FRAMES, Spacing amidships .....</b>	31 ✓	
" " from $\frac{3}{8}$ length amidships to } Collision bulkhead..... }	27 ✓	
" " in peaks.....	24 ✓	
<b>SIDE FRAMING.</b>		
<b>Frame Amidships,</b> Angle, [ or ] .....	12 3½ .55 ✓	
" " Extends up to .....	2 <sup>ND</sup> DECK ✓	
<b>Reversed Frame Amidships,</b> Angle .....	✓	
" " Extends up to ...	✓	
<b>Depth of Framing Girder.....</b>	12 ✓	
<b>Frames in Uppermost Continuous 'tween } Decks, Angle, [ or ] .....</b>	6 3½ .35 ✓ AT EVERY FRAME ✓	
" " <b>Second 'tween Decks,</b> Angle, [ or ] .....	✓	
" " <b>Third</b> " " " "	✓	
" <b>from <math>\frac{1}{2}</math> len. for'd. to 15% len. from } Stem.....</b>	15x4x4x .42 ✓ 62 CHAN. ✓	
" <b>in Peaks,</b> Angle, [ or ] .....	7½ 3 .36 ✓	
<b>Diameter and Spacing of Rivets through } Frame and Shell Plating amid- } ships .....</b>	7/8 @ 5¾ IN SIDE FRAMES. ✓ 7/8 @ 6¼ IN BOTTOM FRAMES. ✓	
<b>State if Frame Joggled .....</b>	YES ✓	
Are the scantlings and arrangements in the <b>Panting Area</b> in accordance with the Rules and/or as approved ? .....	YES ✓	
Are the scantlings and arrangements in way of the <b>Bottom Forward</b> in accordance with the Rules and/or as approved ? .....	YES ✓	
<b>SINGLE BOTTOM.</b>		
<b>Floors,</b> Depth and thickness at mid-line in } Holds .....	✓	
Height of Brackets at side above } base line at toe of frame .....	✓	
<b>Middle Line Keelson,</b> on Floors, Angles, } [ or ] .....	✓	
" " Through Plate or } Intercoastal Plate... }	✓	
" " Foundation Plate on } Floors .....	✓	
" " Flat Plate Keel Angles	✓	
<b>Side Keelsons,</b> No. each side .....	✓	
" " thickness of Intercoastal Plate...	✓	
" " Angles .....	✓	
<b>DOUBLE BOTTOM.</b>		
<b>Solid Floors,</b> thickness and spacing .....	42 EVERY 3 <sup>RD</sup> FRAME. ✓	
" " Are Frame and Reversed Frame } joggled ? .....	YES ✓	
<b>Bracket Floors,</b> breadth and thickness at } middle line..... }	2'8¼ x .42 ✓	
" " breadth and thickness at } margin plate..... }	2'8¼ x .42 ✓	
<b>Bracket Floors,</b> Frame .....	6 3½ .42 ✓	
" " Reversed Frame .....	5½ 3 .42 ✓ 5½ 3 .42 ✓	
" " Vertical Struts .....	8x3½x3½ .42 ✓	
<b>Centre Girder,</b> depth and thickness amidships	48x49 ✓	
" " top Angles .....	3½ 3½ .48 ✓	
" " bottom Angles .....	4 4 .54 ✓	
<b>Side Girders,</b> No. each side and thickness .....	ONE @ .38 ✓	
<b>Margin Plate</b> depth (excl. of flange) and } thickness .....	44½ x .54 ✓	
" " Vertical Angle to Tank side } Bracket abaft $\frac{1}{2}$ len. from } stem .....	6½ 6½ .55 ✓ T BAR ✓	APP° ✓ 6½ x 6½ x .44 ✓
" " Vertical Angle to Tank side } Bracket from forward $\frac{1}{2}$ len. } from stem to Panting Area }	6½ 6½ .55 ✓ T BAR ✓	T BAR ✓
" " Gussets, spacing and scantling } abaft $\frac{1}{2}$ len. from stem..... }	CONTINUOUS .42 ✓	5x3½x42 ✓ BACK BAR IN WAY OF DEEP FRAMING ✓
" " Gussets, spacing and scantling } from forward $\frac{1}{2}$ len. from stem } to Panting Area..... }	CONTINUOUS .42 ✓	
<b>Tank Side Brackets,</b> height above base line } at toe of Frame and thickness }	75x .44 ✓	
<b>INNER BOTTOM PLATING.</b>		
Breadth and thickness of Middle Line Strake ...	82x .50 ✓	
Thickness of remainder in Holds .....	.44 - .40 ✓	
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 ✓	
<b>BEAMS.</b>		
<b>Uppermost Continuous Deck,</b> amidships } in Wells, Angle, [ or ] .....	9 3½ .49 ✓	
" " in way of Bridge, Angle, } [ or ] .....	✓	
Spacing .....	31 ✓	
<b>Second Deck,</b> amidships, Angle, [ or ] .....	12 3½ .45 ✓	
Spacing.....	31. ✓	
<b>Third Deck,</b> amidships, Angle, [ or ] .....	✓	
Spacing.....	✓	
<b>Fourth Deck,</b> amidships, Angle, [ or ] .....	✓	
Spacing.....	✓	
<b>Poop Deck,</b> Angle, [ or ] .....	✓	
Spacing.....	✓	
<b>Bridge Deck,</b> Angle, [ or ] .....	✓	
Spacing.....	✓	
<b>Forecastle Deck,</b> Angle, [ or ] .....	8 3 .42 ✓ 7 3 .36 ✓	
Spacing .....	27x24 ✓	



PILLARS AND DECKS.				
	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.
<b>PILLARS, No. of Rows.</b>	CENTRE LINE BULKHEAD WITH REINFORCED MATCH SIDE GIRDERS.		Stringer Plate, breadth and thickness in way of Bridge	✓
" in 'tween Decks, Size and Spacing.	9 MATCH END BEAMS.		Thickness of Plating abreast Deck openings in way of Bridge	✓ 36-32
" " " " "	EXTRA GIRDER UNDER UPPER DECK EXTENDING FROM AFT OF ENGINE CASING TO FOR OF BOILER CASING FITTED AT OWNERS REQUEST.		Thickness of Plating abreast Deck openings in way of Bridge	✓
" in Holds	"		Thickness of Plating within line of openings.	✓ 34-30
" " " " "	"		If Sheathed, material and thickness	✓ NOT SHEATHED.
<b>Centre Line Bulkhead.</b>			<b>Third Deck.</b>	
Stiffeners and Spacing.	62" APART	✓ 11 3/4 x 58-42	Stringer Plate, breadth and thickness.	✓
Plating, thickness of	30	✓	If Plated, state thickness.	✓
<b>STRINGERS AND DECKS.</b>			<b>Fourth Deck.</b>	
<b>Uppermost Continuous Deck.</b>			Stringer Plate, breadth and thickness.	✓
Stringer Plate, breadth and thickness in way of Bridge	66 x 60-42	✓	If Plated, state thickness.	✓
" " " " " in way of Bridge	"	✓	<b>Poop Deck.</b>	
" Angle in Way	6 6 60	✓	Stringer Plate, breadth and thickness.	✓
Thickness of Plating abreast Deck openings in way of Bridge	55-44	✓	Plating, Sheathing, material and thickness	✓
Thickness of Plating abreast Deck openings in way of Bridge	✓		<b>Bridge Deck.</b>	
Thickness of Plating within line of openings.	40-36	✓	Stringer Plate, breadth and thickness.	✓
If Sheathed, material and thickness	Not SHEATHED EXCEPT OVER ACCOM AT 5 1/2" WOOD	✓	Plating, Sheathing, material and thickness	✓
<b>Second Deck.</b>			<b>Forecastle Deck.</b>	
Stringer Plate, breadth and thickness in way of Bridge	72 x 40	✓	Stringer Plate, breadth and thickness.	✓ 35 x 36
			Plating, Sheathing, material and thickness	✓ NOT SHEATHED.

SHELL PLATING.				
SCANTLINGS.				
STRAKES.	AS IN VESSEL.			
	AMIDSHIPS.	FORWARD.	AFT.	ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.
	Breadth. Thickness.	Thickness. Thickness.	Thickness. Thickness.	
FLAT PLATE KEEL	52 78	68 68	68	
" DBLG. (if any)	3 STRAKES OF BOTTOM PLATING FROM 1/2 LENGTH FORWARD TO COLLISION BULKHEAD 66 THICK			
BOTTOM PLATING, No. of Strakes	60	50	50	
BILGE PLATING, No. of Strakes	60	50	50	
SIDE PLATING, No. of Strakes	60	46	46	
UPPER DECK, Sheer-strake in Way	58 69	46 46	46	
UPPER DECK, Sheer-strake in Bridge	✓			
STRAKE BELOW SHEER-strake in Way	58 64	46 46	46	
STRAKE BELOW SHEER-strake in Bridge				
POOP SIDE PLATING				
BRIDGE SIDE PLATING				
FORECASTLE SIDE PLATING		40		
RIVETING.				
EDGES.				
BUTTS.				
SINGLE OR DOUBLE.				
RIVETS.				
No. of Rows of Rivets.				
Diam. Spacing or to cr.				
Diam. Spacing or to cr.				
STRAPPED OR LAPPED.				
DOUBLE	7/8	3/4	QUAD TREBLE	1 1/8 4 x 3/8 LAPPED
DOUBLE	7/8	3/4	TREBLE	7/8 3/8 LAPPED
"	"	"	"	"
"	"	"	"	"
"	"	"	QUAD TREBLE	3 3/8
"	"	"	QUAD TREBLE	3 3/8
"	"	"	QUAD TREBLE	3 3/8
SIDE PLATING IN WAY OF PANTRY	58 IN LIEU OF SIDE STRINGERS.			
SINGLE	7/8	3/2	SINGLE	7/8 3/8 LAPPED

WATERTIGHT BULKHEADS.				
Total No. of W.T. BULKHEADS in Vessel	7			
Extending to Upper Deck (Sec. 3 c)	1			
" Deck next below	6			
As per Rule	7			
FORGINGS AND CASTINGS.				
KEEL, Bar	FLAT PLATE KEEL	✓		
STEM	ROLLED 10 x 2 1/2	✓		
STERN FRAME	Propeller Post CASTING 10 1/2 x 13	✓	STROMMENS	✓
"	Rudder " 10 1/2 x 23	✓	YERKSTED	✓
Speed of Vessel	10 1/2 KNOTS	✓		
RUDDER—Type	DOUBLE PLATE STREAMLINED	✓		
" A x D	616	✓		
" Diam. of head	FORGING 11"	✓	AKTIEBOLAGET MOTALA YERKSTED	✓
" Mainpiece at top pintle	CASTING 10 1/2 x 10 1/2	✓	STROMMENS YERKSTED	✓
" " heel	6 x 10 3/8	✓		
" how constructed	COMPLETE CAST STEEL FRAME	✓		
" double single plates	48 THICK	✓		
" coupling, vertical or horizontal	HORIZONTAL	✓		
STIFFENERS.				
VERTICAL.				
HORIZONTAL.				
Scantlings. Spacing. Scantlings. Spacing.				
MIDSHIP BULKHEAD, Upper tween decks	✓			
" " Second	✓			
" " Third	✓			
" " Holds	39-26 12 3/4 x 50 BA 30	✓	W.T. PLAT 4	✓
COLLISION " (in Hold)	59-31 10 1/2 x 48 BA 21	✓	2 SEMI BOX BEAMS	✓
AFTER PEAK " "	48-35 6 1/2 x 36 BA 21	✓	4 2 SEMI BOX BEAMS	✓
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	COLVILLES, THE STEEL CO OF SCOTLAND, THE LANARKSHIRE STEEL CO	✓	(OPEN HEARTH)	✓
Has the Steel been tested as required by the Rules?	YES	✓		

EQUIPMENT No. 40053										LETTER at		ANCHORS.		
Number of Certificate.	Anchors.	WEIGHT, LBS. STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.			
		Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.					lbs.		
38788	1st Bower	68	1	14	STOCKLESS	52	18	3	0	68	✓	BYERS IMPROVED	PER N. L. BYERS & CO. SUNDERLAND 27/39	BUTLER
38800	2nd "	68	0	21	"	52	15	2	14	68	✓	"	"	"
38757	3rd "	59	0	0	"	47	15	0	0	58 1/2	✓	"	"	"
	Collective weight.	195	2	7						19 1/2	✓			
52336	Stream	19	0	16	4 3 8	19	19	2	21	19	✓	ORDY FGD WROT IRON	PER KENDRICK & MOLE CAROLYHEATH 26/39	PAUL.

  

CHAIN CABLES.										HAWERS 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.	
			Supplied.	Per Rule.	Cwts.						qrs.	lbs.	Length.	Size.
58970	135 2 1/2 96 1/4 361-0-0	720 3/4	✓	270	2 1/2	✓	STUB LINK	KENDRICK & MOLE	CAROLYHEATH 26/39	PAUL	TOWLINE	120 4 3/4 (6 x 24)	64.6	120 4 3/4 (6 x 24)
58969	135 2 1/2 96 1/4 362-1-21	723.1-21	✓	270	2 1/2	✓	"	"	- DO -	✓	HAWERS & WARPS	2090 2 1/2 (6 x 13)	15.8	2090 2 1/2 (6 x 13)
	270										"	2090 2 1/2 (6 x 13)	13.8	2090 2 1/2 (6 x 13)
Stream (Cable Wire)	90 5 (6 x 12)	52-8	✓	90	5	✓					"			

  

**Steering Gear, Type** (Power ~~or~~ Steam By HASTIE'S (WILSON-PRIE) TYPE) **Alternative Means of Steering** BLOCKY TACKLED TO AFTER WINCH. ✓

**Steering Chains** (Size and Test) NONE, STEERING GEAR AFT ✓ **Windlass** STEAM BY CLARKE CHAPMAN ✓ **Boats** 2-25 LIFE BOATS 2-17 DINAGHS ✓

**Ceiling in Holds**, thickness and material 2 1/2" W. P. UNDER HATCHES & OVER BILGES, Cargo Battens, thickness, material and spacing 6 x 2 W. P. SPACED 3' APART. ✓

**Cargo Hatchways**—(Upper Deck) COAMINGS 30" HIGH, FITTED FOR NEILSON WEBS Thickness of Hatches 2 1/2" SOLID EXCEPT NO. 3 ON 2ND DECK. ✓

**Size of Hatchways** No. 1 (Fwd.) 31'-6" x 20' No. 2 31' x 20' No. 3 28'-5" x 20' No. 4 31' x 20' No. 5 31' x 20' No. 6 ✓

**Number of Shifting Beams** Nos 1, 2, 4, 5 = 5 WEBS : No 3 = 4 WEBS.

Builder's Signature *For LITHGOWS LIMITED* *R. Russell*

  

**GENERAL DECLARATION.** It should be stated (a) whether the vessel (if not a motorship) 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 (where required to be inserted in the Notation).

This vessel has been built in accordance with the approved plans and in general conformity with the Society's rules for the class contemplated.  
 The materials & workmanship are of good quality.  
 All the double bottom tanks, cofferdams, fore & aft peaks & fresh water tanks have been tested as required by the rules & found satisfactory.  
 The weather decks, W.T. bulkheads, tunnel & W.T. doors were hose tested & found satisfactory.  
 The freeboard has been verified & the marks cut in on the vessel's sides.  
 The seams of tank tops are double rivetted & gusset connections are increased in Nos 2, 3, 5 & 6 Double bottom tanks in case oil is required to be carried in these tanks.

  

The amount of Entry Fee	£ 9 : 0 : 0	Fees applied for,	(Special notations, where part of class, to be stated.)
Special Survey Fee	£ 328 : 8 : 0	Received by me,	
FREEBOARD	16 : 0 : 0	20/11/39 R.E.D.	
Travelling Expenses, if any			
State whether the Vessel has been built under Special Survey		YES	
Certificate to be sent to		GREENOCK OFFICE Date of issue 11/11/39	
Committee's Minute		GLASGOW 17 NOV 1939	
Character assigned		100A1 11.39	
Lloyd's Assoc		with freeboard	
		- 1/2 dmc 11.39 F.A. Spe.	

I am of opinion the Vessel should be Classed 100A1 WITH FREEBOARD ✓  
 Signature *Kenneth Jones*  
 Surveyor to Lloyd's Register of Shipping.



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 VESSEL IS A SISTER VESSEL OF THE S.S. BROOMPARK LITHGOWS YARD N<sup>o</sup> 214 GREENOCK FIRST ENTRY REPORT N<sup>o</sup> 20832. S.S. DORNOCH sister vessel

THE APPROVED PLANS, CASTING & FORGING REPORTS ARE BEING FORWARDED AS PER ATTACHED LIST.

PARTICULARS OF ELECTRIC WELDING (if employed) CORNER BARS AT BULKHEADS & TANK ENDS; HEADS & HEELS OF SOLID PILLARS: TANK TOP CONNECTIONS TO CENTRE LINE BULKHEAD: CRUISER STERN & BOSS PLATING AS APPROVED: AUXILIARY ENGINE SEATS, TUNNEL STOOLS. BULKHEAD BRACKETS.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book CRUISER STERN: LLOYDS A & C.P. E.S.D.: D.F.

Particulars of **Drop Test** of Cast Steel Anchors, viz.:—  
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower 44-1-7 : G.B. : 30151 : 22-7-38. ✓  
2nd „ 44-2-7 : G.B. : 30153 : 22-7-38. ✓  
3rd „ 37-2-14 : W.H.H. : 6962 : 3-12-37. ✓

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 39.4 ft. ✓  
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated. ✓

Official No. 166989 Signal Letters ✓ Extreme Breadth over Belting ✓ Over-all Length 447.5 ✓  
(Circ. 1611) (Circ. 1709)

No. and Material of Decks 1 D K & SHELTER D K.

Parts of Bottom of Vessel coated with cement or approved composition COATED WITH CEMENT IN DOUBLE BOTTOM & PEAKS.

Particulars of composition (if fitted) and of approval. ✓

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284)  
Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	131.5 ✓	500	Fore peak tank,		110 ✓
Double bottom, under Engines and Boilers,	✓		After peak tank,		177 ✓
Double bottom, if under Engines only,	25.8 ✓	134	Deep tank, aft,		
Double bottom, if under Boilers only DRY TANK, W.T. Comp.	15.5 ✓		Deep tank, forward,		
Double bottom, forward,	194	869	Other tanks, if fitted,		
Total length (if continuous) and Capacity	369.58	1503	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 3114

Date 15<sup>th</sup> FEBRUARY 1939

Dates of Surveys held while building

(1939) MAR. 4. 14. 20. 23. 28. APRIL 6. 10. 14. 19. 24. 26. MAY 1. 2. 4. 9. 15. 14. 19. 22. 24. 25. 30. JUNE 2. 4. 9. 12. 14. 19.  
20. 21. 26. JULY 8. 9. 20. 21. 24. 31. AUG. 9. 14. 15. 16. 14. 18. 19. 22. 24. 25. 26. 29. SEPT. 6. 4. 8. 15. 20. 22. 28. OCT. 9.  
16. 14. 18. 25. 24. 30. 31. Nov. 2. 6. 7. 8.

Total No. of Visits 68