

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

Survey held at GREENOCK Date First Survey 17th DECEMBER 1941 Last Survey 19th FEBRUARY 1942

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) C.S.S. No TONNAGE OPENING. FREEBOARD 18" IN EXCESS OF State Type of Erections FORECASTLE VESSEL WITH T.O.

Built at PORT GLASGOW

Length from fore part of stem to after part of stern } L 425.0
post on summer L.W.L. See Sec. 3 (1a)

Launched **NOVEMBER 26TH 1942** Yard No. 974.

Builders LITHGOWS LIMITED.

Owners **BRITISH PHOSPHATE COMMISSIONERS**

Managers **ANDREW WEIR & Co. L^{ts} LONDON.**
(Where necessary to be entered in Reg. Book)

Residence MELBOURNE, AUSTRALIA.

Port of Registry LONDON

If surveyed while building, afloat, or in dry dock

BUILDING & AFLOAT & IN DRY DOCK

FEET

length 447.8

adth 56-3

th 34.3

FRAMES, DOUBLE BOTTOM AND BEAMS.

(MADE IN ENGLAND.)

00334-003348-0014

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				Stringer Plate, breadth and thickness in way of Bridge 28 OPENINGS .....		.50	✓
" in 'tween Decks, Size and Spacing		CENTRE LINE BULKHEAD WITH REINFORCED HATCH SIDE COAMINGS & HATCH END BEAMS. EXTRA GIRDER FITTED AMIDSHIPS AT OWNERS REQUEST ✓		Thickness of Plating abreast Deck openings in way of Wells .....		.36	✓
" " " " " "				Thickness of Plating abreast Deck openings in way of Bridge 28 OPENING .....		.40	✓
" in Holds " " " "				Thickness of Plating within line of openings .....		.34	✓
" " " " " "				If Sheathed, material and thickness		NOT SHEATHED	✓
Centre Line Bulkhead.				Third Deck.			
Stiffeners and Spacing		B.A.	11 3 1/2 - 51 SPACED 62" ✓	Stringer Plate, breadth and thickness		✓	
Plating, thickness of .....			.30 ✓	If Plated, state thickness		✓	
STRINGERS AND DECKS.				Fourth Deck.			
Uppermost Continuous Deck.				Stringer Plate, breadth and thickness		✓	
Stringer Plate, breadth and thickness in Wells			72 x .65 ✓	If Plated, state thickness		✓	
" " " " " in way of Bridge .....			.78 ✓	Poop Deck.			
" Angle in Wells			6 6 5/8 ✓	Stringer Plate, breadth and thickness		✓	
Thickness of Plating abreast Deck openings in way of Well 26' OPENING .....			.724 .78 ✓	Plating, Sheathing, material and thickness		✓	
Thickness of Plating abreast Deck openings in way of Bridge 18' .....			.554 .60 ✓	Bridge Deck.			
Thickness of Plating within line of openings .....			.40 ✓	Stringer Plate, breadth and thickness		✓	
If Sheathed, material and thickness			NOT SHEATHED ✓	Plating, Sheathing, material and thickness		✓	
Second Deck.				Forecastle Deck.			
Stringer Plate, breadth and thickness in Wells			84 x .40 ✓	Stringer Plate, breadth and thickness .....		.36	✓
				Plating, Sheathing, material and thickness .....		.32 UNSHEATHED	✓

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? <i>No</i>	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.....	52	.78	.68	.68		DOUBLE.	7/8	3 1/4	FOUR.	1"	4	LAPPED	
„ Dblg. (if any) ✓													
Bottom Plating, No. of Strakes } <i>FOUR</i>		.63	.50	.50		DOUBLE	"	"	FOUR	7/8	3 1/2	"	
Bilge Plating, No. of Strakes } <i>ONE</i>		.63	.50	.50		"	"	"	WELDED AMIDSHIPS, THREE AT ENDS	7/8	3 1/8	WELDED AMIDSHIPS, LAPPED	
Side Plating, No. of Strakes } <i>FOUR</i>		.62	.46	.46		"	"	"	THREE	7/8	3 1/8	"	
Upper Deck, Sheer-strake in Walls.....	58	.69	.46	.46		"	"	"	FOUR	7/8	3 1/2	"	
Upper Deck, Sheer-strake in Bridge ... ✓													
Strake below Sheer-strake in Walls.....	58	.64	.46	.46		"	"	"	FOUR	7/8	"	"	
Strake below Sheer-strake in Bridge ... ✓		THREE STRAKES OF BOTTOM PLATING P+S .69 FROM 1/2 LEN TO RULE POSITION OF COLL" BHD											
Poop Side Plating..... ✓		SHELL PLATING IN PAINTING AREA P+S INCREASED TO .58 IN LIEU OF SIDE STRINGERS.											
Bridge Side Plating..... ✓													
Forecastle Side Plating			.40			SINGLE ✓	7/8	3 1/2	SINGLE	7/8	3 1/8	LAPPED.	

WATERTIGHT BULKHEADS.

FORGINGS AND CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—		7	4 BH / Coll to W. Lk, 6 to 2nd dk 5 divisional W.T. BH in 'twain of 6	
Extending to Upper Deck (Sec. 3 c)		6	NOTE SCANTLING OF HOLD STIFFENERS TAKEN TO 2 ND DM	
Deck next below		1		
As per Rule		7	See page 4	
Div. 40, 66, 85, 97, 130				
		Plating Thickness.	STIFFENERS.	
			VERTICAL.	HORIZONTAL.
			Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper 'tween decks		26	5x3x40	30"
" " Second "				
" " Third "				
" " Holds		85	44x26	11x3 1/2x51 BA 30x33
COLLISION " (in Hold)		54	29	8x3 1/2x50 BA 24
AFTER PEAK " "		48	30	7x3x33 BA 24
				W.T. FLAT TWO SEM. BOX BEAMS TUNNEL RECESS 2 SEM. BOX BEAMS
STEEL.		Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)		
		Colville, Lomarkshire, Steel Co of Scotland.		
		Has the Steel been tested as required by the Rules?		
		Yes		

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar		FLAT PLATE	KEEL	
STEM		ROLLED	10x2 1/2	
STERN FRAME	Propeller Post	CASTING	STREAM	RULE 10 1/2x8
	Rudder	SEE PLAN	LINED	BEARDMORE
Speed of Vessel			10 1/2 KNOTS.	
RUDDER—Type		DOUBLE PLATE	STREAM LINED	
" A x D.			570	
" Diam. of head	FORGING	12"		BEARDMORE
" Mainpiece at top pintle	CASTING	10 1/8 x 10 1/2		BEARDMORE
" " heel	"	10 1/8 x 6		
" how constructed		CAST STEEL	COMPLETE	FRAME
" double or single plate		DOUBLE	46	
" coupling, vertical or horizontal		VERTICAL		
			OPEN HEARTH	

40280 See approved Mtd. Sect.
+ Mtd. Sect. as built

EQUIPMENT No. 40086										LETTER AT ✓		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.				
26880	1st Bower ...	68	3	7	Stockless			53	5	0	0	✓ 68	BYERS	PER W. BYERS & CO	L.W. 10/10/41	GREEN
26758	2nd „ ...	68	1	7	„			52	18	3	0	✓ 68	„	„	L.W. 13/6/41	„
	3rd „ ...											58 1/2				
	Collective weight											199 1/2				
55297	Stream	19	1	10	4	3	16	20	4	0	7	✓ 19	DRYFO. WROT IRON	PER KENDRICK MOLE	C.H. 31/3/42	NORMAN

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.	
	Fathoms.	Diam. Ins.		Supplied.	Per Rule.	Supplied.	Per Rule.	Fathoms.	Diam. Ins.					Fathoms.	Ins.		Fathoms.	Ins.
116860	120	2 1/2	96 1/4	13 3/4	229.2	14	720 3/4	270	2 1/2	STUD LINK	KENDRICK MOLE	15/6/42 RELF	TOWLINE	120	4 3/4	64.6	120	4 3/4
116861	105	"	"	"	286.1	0	✓ 286.1	"	"	"	"	"	HAWSERS & WARPS	200	2 3/4	15.2	200	2 3/4
														200	2 1/2	13.2	200	2 1/2
Lean Stream Chain	90	5	52.8					90	5									
Steel Wire																		

Steering Gear, Type (Power ~~on board~~) 4 RAM HYDRAULIC BY HASTIE (STEAM COMPRESSOR) Alternative Means of Steering BLOCKS & TACKLE To Aft CAPSTAN.

Steering Chains (Size and Test) NONE, STEERING GEAR AFT, TELEMOTOR CONTROL Windlass STEAM BY CLARK, CHAPMAN. Boats ONE WITH MOTOR.

Ceiling in Holds, thickness and material 2 1/2" W.P. OVER BILGES ONLY. T.T. PLATING INCREASED UNDER HATCHWAYS. Cargo Battens, thickness, material and spacing NOT FITTED BUT CLEATS SUPPLIED.

Cargo Hatchways.—(Upper Deck) 30" COAMING STIFFENED.

Size of Hatchways No. 1 (Fwd.) 31'-6" x 26' No. 2 33'-7" x 26' No. 3 15'-6" x 20' No. 4 31'-6" x 26' No. 5 31'-6" x 26' No. 6 31'-6" x 26' Thickness of Hatches 2 1/2" W.P. ON WEATHER PK. 31'-0" Sec 46d. Rpt. 31'-0" NOT FITTED ON 2ND DK* SEE PAGE 4.

Number of Shifting Beams } 12 AIS = 5 WEBS NO 3 = 2 WEBS

For LITHGOWS LIMITED

Builder's Signature

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 & 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, deep tanks, fore & aft peak tanks & fresh water tanks have been tested as required by the rules & found satisfactory. The weather decks, W.T. bulkheads, funnel & W.T. doors were hose tested & found satisfactory. The freeboard has been verified & the marks cut in on the vessel's sides. The pumps, steering gear, windlass, W.T. doors, auxiliary steering gear & bilge suction were tried & found satisfactory. Emergency equipment has been fitted & no sparring has been fitted. The scantlings are suitable for a draft 18" in excess of that corresponding to the freeboard which could be assigned to the vessel if a tonnage opening were fitted & the increased draft is 26'-1 1/2" moulded. All recommendations contained in the attached C.R.S. Spl's endorsement of 3.3.43 carried out. In addition floors were fitted at every frame throughout the vessel and a girder fitted under W dk (p. 25) alongside E & B casing. See G.L. letter 20.3.43 attached.

The amount of Entry Fee..... £ 10 : 0 : 0 Fees applied for, 27th FEB 1943.
Special Survey Fee..... £ 382 : 1 : 6 Received by me, 19.
FREEBOARD. 18 : 0 : 0
Travelling Expenses, if any £ : : :

(Special notations, where part of class, to be stated.)

I am of opinion the Vessel should be Classed + 100 A.1. WITH FREEBOARD

State whether the Vessel has been built under Special Survey YES

Signature Kenneth English, Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to GREENOCK OFFICE Date of issue 12/4/43

Committee's Minute GLASGOW 2 MAR 1943

Character assigned 1-100 A1 2.43 with freeboard

Lloyd's Assoc.

Note: Equip. Cgo. ltns.

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Lloyd's Register Foundation

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 of the Standard 'Y' type with certain additions to suit the trade upon which she is to be engaged.

Plans of midship section & profile as built are forwarded.

The approved plans & forging reports are herewith forwarded.

* Hatch covers are not fitted at the second deck hatchways. See below

The Owners state that sparring & hatch covers will be fitted at the first opportunity.

Note! Special mooring windlass fitted under forecastle.

Openings in the lower deck bulkheads are closed by riveted plates except at the following:—
Bd between Nos 2 & 3 Long Sts, between Nos 3 & 4 side bunkers, between Nos 4 & 5 Long Sts, In all these cases hinged W.T doors are fitted. The lower deck bulkheads have been holed.

* Hatch covers have now been fitted at all second deck hatchways.

PARTICULARS OF ELECTRIC WELDING (if employed) Solid pillars, cruiser stern, boss plate, corners of bulkheads & tank ends, butts of stringer bar, auxiliary engine seats, tunnel stools, thrust seat ventilators, corners of hatch coaming bars, bilge stake butts amidships.

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

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

1st Bower 44.3.7 : RHT.6 : 4114 : 30.7.41.
2nd „ 44.0.7 : J.T. : 3885 : 28.3.41.
3rd „

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. ft., Bridge ft., Forecastle 52 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. 168,387 Signal Letters Extreme Breadth over Belting (Circ. 1611) Over-all Length 462' 9 1/2" (Circ. 1703)

No. and Material of Decks Two DECKS

Parts of Bottom of Vessel coated with cement or approved composition all double bottom coated with cement.

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.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
Double bottom, aft,	Feet. 131.75	Tons. 371	Fore peak tank,	Feet.	Tons. 173
Double bottom, under Engines and Boilers, C/D.	2.58		After peak tank,		233
Double bottom, if under Engines only,	25.83	120	Deep tank, aft, P+S Tanks at sides of tunnel	56.8	378
Double bottom, if under Boilers only, Dry Tank W.T Comp	15.5		Deep tank, forward, P+S Wing Tanks fwd	15.0	400
Double bottom, forward,	187.16	718	Other tanks, if fitted,		
Total length (if continuous) and Capacity	362.82	1209	(If necessary furnish further information by sketch.)		

Order for Special Survey No. 3490

Date 26th JAN. 1942

Dates of Surveys held while building

(1941) DEC. 17. (1942) JAN. 5. MAR. 11. APRIL 2. 4. 16. 20. 29. MAY 1. 4. 11. 14. 21. 26. JUNE 2. 9. JULY 1. 16. 20. 29. AUG. 3. 11. 13. 21. 26. SEPT. 4. 14. 16. 29. OCT. 1. 5. 7. 16. 26. 28. 29. 31. NOV. 3. 5. 7. 9. 12. 13. 16. 18. 20. 24. 25. 26. DEC. 4. 14. 22. 23. 28. 29. (1943) JAN. 4. 6. 11. 12. 14. 15. 18. 19. 21. 22. 25. 27. 28. 29. FEB. 1. 4. 8. 11. 12. 15. 16. 17. 18. 19.

Total No. of Visits 79