

RECEIVED

13 MAR 1944

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 **24TH FEBRUARY 1944** Port of **GREENOCK**No. **22603**Survey held at **PORT GLASGOW**Date First Survey **14TH JANUARY 1943**Last Survey **19TH FEBRUARY 1944**

On the (State if Machinery is of Single Screw or Double Screw)

SINGLE SCREW STEAMER "GEOLOGIST"**MCHY AMIDSHIPS.**

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

FULL SCANTLING.State Type of Erections **POOP, BRIDGE, FLE**TONNAGE under Tonnage Deck... **5546.16**CLASS **100A.1.**State if with freeboard as condition of Class **No**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 of beam at side of uppermost continuous deck. See Sec. 3 (1a) **L 418.16**Launched **DECEMBER 9TH 1943** and No. **989**Total **✓**Breadth (greatest moulded) **B 54.29**Builders **LITHGOWS LIMITED**Gross Tonnage **6201.95**Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) **D 32.58**Owners **CHARENTE S. S. CO. LTD.**Register Tonnage **3662.78**1st Longitudinal Number (L x D) = **13624**Managers **T. J. HARRISON**

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

2nd Numeral L x (B + D) = **36326**Residence **LIVERPOOL**

REGISTERED DIMENSIONS. FEET.

Length **420.3**Framing Depth "d," at middle of length. See Sec. 3 (1d) **17.9**Port of Registry **LIVERPOOL**Breadth **54.65**Proportions—Depth to Length—Uppermost continuous deck to top of keel **12.84**

If surveyed while building, afloat, or in dry dock

Depth **30.3**Do. Long Bridge to top of keel **10.32**Draught Moulded **26' 3/2****BUILDING, AFLOAT & IN DRY DOCK.**

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	27 ✓		Bracket Floors, Frame	BA 7 3/2 .38 ✓	
" " from 1/2 length amidships to Collision bulkhead.....	27 ✓		" " Reversed Frame	BA 7 3/2 .38 ✓	
" " in peaks.....	24 ✓		" " Vertical Struts	CHAN 9 3/2 .54 ✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	44x.52 ✓	
Frame Amidships, Angle E	10 3/2 .46 ✓		" " top Angles	DBLE 3 1/2 3/2 .46 ✓	
" " Extends up to	Upper 2ND Dk. Alty ✓		" " bottom Angles	DBLE 4 4 .52 ✓	
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	ONE @ .36 ✓	
" " Extends up to...	✓		Margin Plate depth (excl. of flange) and thickness	37x.52 ✓	
Depth of Framing Girder	10		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	3 1/2 3/2 .42 ✓	
Frames in Uppermost Continuous 'tween Decks, Angle, E [✓]	6 3 1/2 .34 Alt Fms		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area	3 1/2 3/2 .42 ✓	
" " Second 'tween Decks, Angle, E [✓]	✓		" " Gussets, spacing and scantling abaft 1/4 len. from stem.....	.40 CONTINUOUS ✓	
" " Third " " " "	✓		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area.....	.40 " ✓	
" " from 1/4 len. for'd. to 15% len. from Stem.....	11x3 1/2 x.55-.48 BA. ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	67x.42. ✓	
" " in Peaks, Angle E [✓]	8 3 1/2 .40 ✓		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 @ 7 DIAS ✓		Breadth and thickness of Middle Line Strake ...	62x.50 ✓	INCREASED UNDER HATCHWAYS
State if Frame Joggled	YES ✓		Thickness of remainder in Holds .....	.41-.37 ✓	YES, INCREASED OVER RULE
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	YES ✓		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?		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	YES ✓		BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle E [✓]	8 3 1/2 .36 ✓	
Floors, Depth and thickness at mid-line in Holds			" " in way of Bridge, Angle, E [✓]	8 3 1/2 .36 ✓	
Height of Brackets at side above base line at toe of frame			Spacing	27" ✓	
Middle Line Keelson, on Floors, Angles, E [✓]			Second Deck, amidships, Angle, E [✓]	9 3 .40 ✓	
" " Through Plate or Intercostal Plate...			Spacing	27 ✓	
" " Foundation Plate on Floors			Third Deck, amidships, Angle, E [✓]	✓	
" " Flat Plate Keel Angles			Spacing	✓	
Side Keelsons, No. each side			Fourth Deck, amidships, Angle, E [✓]	✓	
" " thickness of Intercostal Plate...			Spacing	✓	
" " Angles			Poop Deck, Angle, E [✓]	6 3 .40 ✓	
DOUBLE BOTTOM.			Spacing	7 27 3/2 .36 ✓	
Solid Floors, thickness and spacing	39 EVERY 4TH FRAME ✓		Bridge Deck, Angle, E [✓]	8 3 .35 ✓	
" " Are Frame and Reversed Frame joggled?	YES ✓		Spacing	27 ✓	
Bracket Floors, breadth and thickness at middle line	45x.40 ✓		Forecastle Deck, Angle, E [✓]	9 3 .38 ✓	
" " breadth and thickness at margin plate.....	33x.40 ✓		Spacing	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.....			Stringer Plate, breadth and thickness in way of Bridge 72x.34. ✓	
„ in 'tween Decks, Size and Spacing.....	Two Rows Of Widely		Thickness of Plating abreast Deck openings in way of Wells ..... .36 ✓	
„ „ „ „ „	SPACED PILLARS GIRDERS		Thickness of Plating abreast Deck openings in way of Bridge ..... .30 ✓	
„ in Holds „ „			Thickness of Plating within line of openings... .34x.30 ✓	
„ „ „ „ „			If Sheathed, material and thickness NO SHEATHED. ✓	
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	72x.88-.42. ✓		If Plated, state thickness ✓	
„ „ „ „ in way of Bridge	72x.50 ✓		Poop Deck.	
„ Angle in Wells	6 6 .88 ✓		Stringer Plate, breadth and thickness ..... .36 ✓	
Thickness of Plating abreast Deck openings in way of Wells .....	.65 ✓		Plating, Sheathing, material and thickness ... 30 FITTED WITH DISPOSITION. ✓	
Thickness of Plating abreast Deck openings in way of Bridge .....	.50x.36 ✓		Bridge Deck.	
Thickness of Plating within line of openings...	.42x.34 ✓		Stringer Plate, breadth and thickness..... 70x.50 ✓	
If Sheathed, material and thickness	NOT SHEATHED ✓		Plating, Sheathing, material and thickness ... 52 NOT SHEATHED ✓	
Second Deck.			Forecastle Deck.	
Stringer Plate, breadth and thickness in Wells...	72x.40 ✓		Stringer Plate, breadth and thickness..... .36 ✓	
			Plating, Sheathing, material and thickness ... 34 NOT SHEATHED ✓	

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.	
FLAT PLATE KEEL	52 ✓	.82 ✓	.72 ✓	.72 ✓		DOUBLE ✓	7/8 ✓	3 3/8 ✓	4R ✓	1 ✓	4 ✓	LAPPED ✓	
„ DBLG. (if any)	BOTTOM SHELL FOR 3 STRAKES PYS. 694.67.					DOUBLE ✓	7/8 ✓	3 3/8 ✓	4R ✓	7/8 ✓	3 1/2 ✓	„	
BOTTOM PLATING, No. of Strakes <i>FOUR</i> ✓		.61 ✓	.46 ✓	.46 ✓		„	„	„	4R ✓	„	„	WELDED AMIDSHIPS	
BILGE PLATING, No. of Strakes <i>ONE</i> ✓		.61 ✓	.46 ✓	.46 ✓		„	„	„	3R ✓	„	3 1/2 ✓	WELDED AMIDSHIPS	
SIDE PLATING, No. of Strakes <i>THREE</i> ✓		.61 ✓	.46 ✓	.46 ✓		„	1 7/8 ✓	3 1/2 ✓	5R ✓	1 ✓	4 1/2 ✓	LAPPED	
UPPER DECK, Sheer-strake in Wells.....	62 ✓	.91 ✓	.46 ✓	.46 ✓		„	7/8 ✓	3 3/8 ✓	3R ✓	7/8 ✓	3 3/8 ✓	„	
UPPER DECK, Sheer-strake in Bridge ...		.61 ✓				„	„	„	4R ✓	1 ✓	4 ✓	„
STRAKE BELOW Sheer-strake in Wells.....	78 ✓	.75 ✓	.46 ✓	.46 ✓		„	„	„	3R ✓	7/8 ✓	3 1/8 ✓	„	
STRAKE BELOW Sheer-strake in Bridge ...		.61 ✓				SINGLE ✓	„	„	1R ✓	„	„	„
POOP SIDE PLATING .....				.38 ✓		DOUBLE ✓	„	„	3R ✓	„	„	„
BRIDGE SIDE PLATING ...		.60 ✓				SINGLE ✓	„	„	1R ✓	„	„	„
FORECASTLE SIDE PLATING			.42 ✓										

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—		8				
Extending to Upper Deck (Sec. 3 c)		7 ✓				
„ Deck next below		1				
As per Rule		7				
		STIFFENERS.				
		Plating Thickness.	VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks		28-26 1/2 x 320A	32 ✓			
„ „ Second „						
„ „ Third „			34 ✓			
„ „ Holds		47-34 10 x 3 1/2 x 56 BA	30 ✓			
COLLISION „ (in Hold)		52-36 10 x 3 1/2 x 40 BA	25 1/2 ✓		S.B. BEAM	
AFTER PEAK „ „		75-30 7/8 x 36 BA	22 ✓		W.T. FLAT	
					RECESS TOP	

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	FLAT PLATE	KEEL		
STEM	ROLLED 9 3/8 x 2 5/8	STEM		
STERN FRAME { Propeller Post	CASTING. 10 1/2 x 8 3/8	Rule 10 1/2 x 8 3/8 ✓		
{ Rudder „	„ PLAN. DARLINGTON			
Speed of Vessel	12 KNOTS ✓	FORGE		
RUDDER—Type	DOUBLE PLATE STREAM LINED			
„ A x D	502. ✓			
„ Diam. of head	FORGING 11 1/8 ✓			
„ Mainpiece at top pint	CASTING 10 1/2 x 10 1/2	DARLINGTON		
„ „ heel ...	„ 6 x 10 1/2	FORGE		
„ how constructed	COMPLETE CAST STEEL FRAME ✓			
„ double or single plate coupling, vertical or horizontal	DOUBLE .46 VERTICAL. ✓			

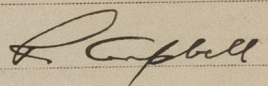
STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) **COLVILLE, STEEL CO OF SCOTLAND, LANARKSHIRE.**

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

EQUIPMENT No 38200 /										LETTER at		ANCHORS.						
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 55.	Description of Anchor.	Makers.	Where and when tested and Superintendent.				
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.					lbs.			
2015	1st Bower ...	68	2	0	Stockless			52	18	3	0	✓	68	HALLS LATEST	N HINGLEY & SONS	N-29/43	RELF ✓	
2016	2nd " ...	68	0	0	"			52	12	2	0	✓	68	" "	"	" "	" ✓	
	3rd " ...																	
	Collective weight.	136	2	0														
2075	Stream	19	0	0	✓	4	3	6	19	17	2	0	✓	19	ORD F&D STEEL WELDED	"	" 22/43	RELF ✓
														HAWSERS AND WARPS.				

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.		Length.	Cir.
3376	105	2 5/16	9 1/4	134 3/4	281.2.7	720 3/4			270	2 5/16	STAD LINK	HINGLEY	N 23/6/43 RELF	TOWLINE	120	4 3/4	64.6	120	4 3/4
3375	120	2 5/16	"	"	320.1.14							"	"	HAWSERS & WARPS	2090	2 3/4	15.2	2090	2 3/4
	225													"	2090	2 1/2	13.2	2090	2 1/2
														"					
on Stream Steel Wire	90	5			52.8				90	5				"					

Steering Gear, Type (Power or hand)	BROWN BROS STEAM TILLER ✓	Alternative Means of Steering	HAND FRICTION GEARWORKED FROM STEERING GEAR HOUSE ✓								
Steering Chains (Size and Test)	TELE MOTOR CONTROL ✓	Windlass	STEAM BY CLARK CHAPMAN. Boats 4-28 LIFEBOATS ONE FITTED WITH MOTOR								
Ceiling in Holds, thickness and material	OVER BILGES ONLY ✓	Cargo Battens, thickness, material and spacing	NOT FITTED BUT PLANTS SUPPLIED (SEE OVER)								
Cargo Hatchways.—(Upper Deck)	30' STEEL COAMINGS STIFFENED ✓	Thickness of Hatches	3' ON WEATHER DECK. HATCHES FITTED ON 2ND DECK. ✓								
Size of Hatchways No. 1 (Fwd.)	29'-3" x 17' ✓	No. 2	33'-9" x 17' ✓	No. 3	9' x 17' ✓	No. 4	36' x 17' ✓	No. 5	22'-6" x 17' ✓	No. 6	✓
Number of Shifting Beams and for Fore and Afters	No 1 = 5 ✓ : No 2 = 6 ✓ : No 3 = 1 ✓ : No 4 = 7 ✓ : No 5 = 4 ✓										
Builder's Signature		FOR LITHGOW LIMITED									

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).		
The ship has been built in conformity with the Society's Rules & Regulations & the Secretary's letters. The scantlings & arrangements are in accordance with or equivalent to those shown on the approved plans. The materials & workmanship are of good quality. The fore & aft peaks, double bottom tanks & deep tanks have been tested as required by the rules & found satisfactory. The pumps, steering gear, windlass, W.T. doors, auxiliary steering gear & bilge suction were tried & found satisfactory. The weather decks, watertight bulkheads, & tunnel were hose tested & found satisfactory. The freeboard has been verified & the marks cut in on the vessel's sides. Emergency equipment has been supplied with the Bureau's consent. The freeboard certificates have been endorsed for deeper loading. In accordance with Admiralty circular M.S. 1597/42. The deep tank is made suitable for the carriage of oil fuel cargo.		

The amount of Entry Fee	£ 10 : 0 : 0	Fees applied for,	(Special notations, where part of class, to be stated.)
Special Survey Fee	£ 355 : 1 : 0	22 ND FEB. 1944	
FREEBOARD	17 : 0 : 0	Received by me,	I am of opinion the Vessel should be Classed 100.A.1.
Travelling Expenses, if any £		19	
State whether the Vessel has been built under Special Survey	YES	Signature	Hemmelgarn & William D. Johnston
Certificate to be sent to	GREENOCK OFFICE	Date of issue	29/3/44
Committee's Minute	GLASGOW - 7 MAR 1944		
Character assigned	-1- 100 A1		
Lloyd's A&CP	2.44		
Note:- Equip. Co. Hous :			
Date of Build	3.44		

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.)

Plans of midship section & profile & decks as built, approved plans & forging reports are forwarded herewith.

This vessel is a sister vessel of the H. Prospector. Grk List entry report #22519
It is noted that cargo battens will be fitted abroad.

PARTICULARS OF ELECTRIC WELDING (if employed) Hild pillars, butts of deck girders, corner bars to tank ends & bulkheads, shell butts amidships & bilge stake & first stake above bilges
butts of deck stringer bar, corners of hatch deck bars, cruiser stern.

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

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

1st Bower 43.3.14 : J.D. : 3110 : 16/7/40.
2nd " 43.2.14 : A.E.G. : 4866 : 16/3/43.
3rd " ✓

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 37 ft., R.Q.D. ✓ ft., Bridge 139.5 ft., Forecastle 44.8 ft.
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

Official No. 168,875. Signal Letters ✓ Extreme Breadth over Belting (Circ. 1611) ✓ Over-all Length 435 ✓
No. and Material of Decks 2 Dks. CEMENT UNDER BOILERS & WEDGES & FILLETS ELSEWHERE
Parts of Bottom of Vessel coated with cement or approved composition

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.	SW Water Capacity. Tons.	Where Fitted.	Length. Feet.	S.W Water Capacity. Tons.
Double bottom, aft,	110.25 ✓	339.	Fore peak tank,		65 ✓
Double bottom, under Engines and Boilers,	65.25 ✓	309	After peak tank,		54 ✓
Double bottom, if under Engines only,	✓ 177.75	See plan 2	Deep tank, aft,	31.5 ✓	922 ✓
Double bottom, if under Boilers only,	182.75	610	Deep tank, forward,		
Double bottom, forward,	358.25	1258 ✓	Other tanks, if fitted,		
Total length (if continuous) and Capacity	353.25		(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 3503.

Date 27th Oct. 1942.

Dates of Surveys held while building

(1943) JAN. 14. 18. FEB. 17. MAY 18. JUNE 11. 18. 24. 30. JULY 1. 2. 14. 16. 19. 20. 22. 28.
AUG. 2. 5. 16. 24. 25. 30. SEPT. 3. 8. 9. 13. 15. 16. 17. 21. 22. 23. 24. 28. OCT. 1. 6. 7. 8. 13. 14. 18.
20. 21. 22. 25. 26. 27. 28. 29. NOV. 1. 2. 3. 4. 5. 10. 11. 12. 15. 16. 17. 18. 19. 22. 24. 25. 30. DEC. 3. 8. 9.
14. (1944) JAN. 6. 12. 14. 17. 19. 21. 25. 28. 31. FEB. 2. 4. 7. 8. 9. 10. 11. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Total No. of Visits 92.