

Received at London Office

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

Survey held at PORT GLASGOW Date First Survey 23<sup>RD</sup> DECEMBER 1941 Last Survey 16<sup>TH</sup> DECEMBER 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 TONNAGE OPENING

Built at PORT GLASGOW

Launched SEPT<sup>R</sup> 30<sup>TH</sup> 1942 Yard No. 972

Builders LITHGOWS LIMITED  
HIS MAJESTY REPRESENTED BY THE

Owners MINISTER OF WAR TRANSPORT

Managers B & S STEAM SHIPPING CO LTD

Residence CARDIFF

Port of Registry GREENOCK

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

## BUILDING & AFLOAT.

	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>		
Frame Amidships, Angle, E or C	12 3½ .56 ✓	
" " Extends up to.....	2 <sup>ND</sup> DECK ✓	
Reversed Frame Amidships, Angle .....	✓	
" " Extends up to .....	✓	
Depth of Framing Girder.....	12 ✓	
Frames in Uppermost Continuous 'tween Decks, Angle, E or C..... }	6 3½ .38 ✓	
" " Second 'tween Decks, Angle, C or C	✓	
" " Third .....	✓	
" " from $\frac{1}{8}$ len. for'd. to 15% len. from Stem .....	15x4x4 x 59% CHAN. ✓	
" " in Peaks, Angle or C	8 3½ .35 ✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships .....	$\frac{7}{8}$ @ 7D AS BOTTOM ✓ $\frac{7}{8}$ @ 6½ " SIDES. ✓	
State if Frame Joggled.....	YES. ✓	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved? .....	YES. ✓	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved? .....	YES. ✓	
<b>SINGLE BOTTOM.</b>		
Floors, Depth and thickness at mid-line in Holds.....		
Height of Brackets at side above base line at toe of frame.....		
Middle Line Keelson, on Floors, Angles, C or C.....		
" " Through Plate or Inter-costal Plate .....		
" " Foundation Plate on Floors .....		
" " Flat Plate Keel Angles .....		
Side Keelsons, No. each side.....		
" " thickness of Intercostal Plate.....		
" " Angles .....		
<b>DOUBLE BOTTOM.</b>		
Solid Floors, thickness and spacing .....	42 EVERY 3 <sup>RD</sup> FRAME ✓	
" " Are Frame and Reversed Frame joggled? .....	YES ✓	
Bracket Floors, breadth and thickness at middle line .....	32¼ x .42 ✓	
" " breadth and thickness at margin plate.....	32¼ x .42. ✓	
Bracket Floors, Frame .....	BA 6 3½ ¾ ✓	
" " Reversed Frame.....	BA 6 3½ .36 ✓	
" " Vertical Struts .....	BA 10 3½ .40 ✓	
Centre Girder, depth and thickness amidships .....	43¼ x .54 ✓	
" " top Angles .....	3½ 3½ .48 ✓	
" " bottom Angles.....	4 4 .54 ✓	
Side Girders, No. each side and thickness.....	1@ .38 ✓	
Margin Plate depth (excl. of flange) and thickness .....	44 x .54 ✓	
" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem .....	6½ 6½ .625 T ✓	
" " Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area .....	6½ 6½ .625 T ✓	
" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....	.42 EVERY FRAME ✓	
" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area .....	.42 EVERY FRAME ✓	
Tank Side Brackets, height above base line at toe of Frame and thickness .....	77 x .44 ✓	
<b>INNER BOTTOM PLATING.</b>		
Breadth and thickness of Middle Line Strake... ..	83 x .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>		
Uppermost Continuous Deck, amidships .....	10 3½ .42 ✓	
" " Well, Angle, E or C .....	✓	
" " in way of Bridge, Angle, C or C .....	✓	
Spacing .....	31 ✓	
Second Deck, amidships, Angle, E or C .....	12 3½ .45 ✓	
Spacing .....	31 ✓	
Third Deck, amidships, Angle, C or C .....	✓	
Spacing.....	✓	
Fourth Deck, amidships, Angle, C or C .....	✓	
Spacing.....	✓	
Poop Deck, Angle, C or C .....	✓	
Spacing.....	✓	
Bridge Deck, Angle, C or C .....	✓	
Spacing.....	✓	
Forecastle Deck, Angle, C or C .....	8 3½ .42 ✓	
Spacing.....	27 x .24 ✓	

00391-003979-00524



# PILLARS AND DECKS.

PILLARS, No. of Rows	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
in 'tween Decks, Size and Spacing	CENTRE LINE BULKHEAD	
" " " "	WITH REINFORCED HATCH	
in Holds " " "	SIDES GIRDER SQ HATCH	
" " " "	END BEAMS	
Centre Line Bulkhead.		
Stiffeners and Spacing	62" APART	12 3 1/2 45
Plating, thickness of		30
STRINGERS AND DECKS.		
Uppermost Continuous Deck.		
Stringer Plate, breadth and thickness in Way of Bridge	72 x 65	
" " " " in way of Bridge		
" Angle in Wells	6 6 5/8	
Thickness of Plating abreast Deck openings in way of Wells	60 9 65	
Thickness of Plating abreast Deck openings in way of Bridge		
Thickness of Plating within line of openings	40	
If Sheathed, material and thickness	NONE	
Second Deck.		
Stringer Plate, breadth and thickness in Way of Bridge	72 x 40	

## SHELL PLATING.

STRAKES.	AS IN VESSEL.	ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.
	AMIDSHIPS.	
	Breadth.	Thickness.
Flat Plate Keel	52	78 68 68
" Dblg. (if any)		
Bottom Plating, No. of Strakes	2 @ 60	50 50
Bilge Plating, No. of Strakes	3 @ 65	50 50
Side Plating, No. of Strakes	1 @ 60	46 46
Upper Deck, Sheer-strake in Wells	58	69 46 46
Upper Deck, Sheer-strake in Bridge		
Strake below Sheer-strake in Wells	58	65 46 46
Strake below Sheer-strake in Bridge		
POOP SIDE PLATING		
BRIDGE SIDE PLATING		
FORECASTLE SIDE PLATING		

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel	7
Extending to Upper Deck (Sec. 3 c)	6
" Deck next below	1
As per Rule	7
MIDSHIP BULKH'D, Upper 'tween decks	26 6 x 3 1/2 x 3/8 27 x 30
" " Second	
" " Third	
" " Holds	8.5 44-26 12 3 1/2 45 BA 27
COLLISION (in Hold)	54-29 12 3 1/2 45 BA 24
AFTER PEAK	48-30 7 3 1/2 35 BA 24
STEEL.	

## FORGINGS AND CASTINGS.

KEEL, Bar	FLAT PLATE KEEL
STEM	LOWER PORTION ROLLED 10 x 2 1/2 UPPER PORTION PLATES
STERN FRAME	Propeller Post CASTING LINED STEEL PLAN
Rudder	
Speed of Vessel	10 1/2 KNOTS
RUDDER-Type	DOUBLE PLATE STREAM LINED
" A x D	570
" Diam. of head	FORGING 12"
" Mainpiece at top pintle	CASTING 10 1/2 x 10 3/8
" heel	6 x 10 3/8
" how constructed	COMPLETE CAST STEEL FRAME
" double or single plate coupling, vertical or horizontal	DOUBLE 46 VERTICAL

## EQUIPMENT No. 40086

ANCHORS.	WEIGHT, EX. STOCK.	TEST, PER CERTIFICATE.	WEIGHT REQUIRED BY TABLE 53.	DESCRIPTION OF ANCHOR.	MAKERS.	WHERE AND WHEN TESTED, AND SUPERINTENDENT.
1st Bower	68 1 0	52 13 2 14	68	BYERS	W.L. BYERS & CO. L.W. 11/41	GREEN
2nd "	68 0 0	52 12 2 0	68	"	"	L.W. 11/3/42
3rd "			58 1/2			
Collective weight	136 1 0		194 1/2			
Stream	19 0 14	4 3 20 19 19 2 21	19	DRY FGD WROT IRON	KENDRICK & MOLE C.H. 11/4/42	NORMAN

## CHAIN CABLES.

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. Fathoms. Ins.	Status. Break. Tons. Ins. Supplied. Per Rule. Cwts. qrs. lbs.	Length. Diam. Fathoms. Ins.	Length. Diam. Fathoms. Ins.					Fathoms. Ins.	Tons. Fathoms. Ins.	Fathoms. Ins.
1650 22 5 2 3/8 96 1/4 13 3/4 603 2 10	720 3/4	270 2 3/8 2 1/2 LINK	270 2 3/8 2 1/2 LINK	KENDRICK & MOLE	C.H. 11/3/42 NORMAN	TOWLINE	120 4 3/4 64 6	120 4 3/4		
Stream 90 5 52 8			90 5					2 @ 90 3 1/4 18 6	2 @ 90 2 3/4	

## HAWSERS AND WARPS.

Steering Gear, Type (Power ~~hand~~) STEAM BY HASTIE GREENOCK Alternative Means of Steering BLOCK STACKLE LED TO AFTER WINCH 1-2 8 1/2 FEET BOAT WITH MOTOR

Steering Chains (Size and Test) NONE STEERING GEAR AFT TELE MOTOR CONTROL Windlass STEAM BY EMERSON WALKER Boats 1-26 2-22

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

Cargo Hatchways. (Upper Deck) 30" COAMING STIFFENED Thickness of Hatches 2 1/2" W. R. ON UPPER DECK 3" A. N. 9 1/2" 2" D. HATCHES NOT FITTED AT HATCH

Size of Hatchways No. 1 (Fwd.) 31'-6" x 20' No. 2 31' x 20' No. 3 10'-4" x 20' No. 4 10'-4" x 20' No. 5 28'-5" x 20' No. 6 31' x 20'

Number of Shifting Beams Nos. 1, 2, 5 & 6 = 5 : Nos. 3 & 4 = 1.

FOR LITHGOWS LIMITED

Builder's Signature R. Campbell

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 British Rules for the Classification of Vessels. The materials & workmanship are of good quality. All the double bottom tanks, oiler tanks, fore & aft peak tanks & fresh water tanks have been tested as required by the rules & found satisfactory. The weather decks, W.T. bulkheads, tunnels & W.T. doors were tested & found satisfactory. The freeboard has been verified by the rules. Outrig on the vessel 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 in the uninsulated holds. 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.

The amount of Entry Fee	£10.0.0	Fees applied for, 19th DEC. 1942.	
Special Survey Fee	376.1.6	Received by me,	
SPECIFICATION FEE	94.0.6	19	
Travelling Expenses, if any	£18.0.0		
FREEBOARD.			
State whether the Vessel has been built under Special Survey	YES		
Certificate to be sent to	GREENOCK OFFICE	Date of issue	18/1/43.

Committee's Minute GLASGOW 22 DEC 1942

Character assigned - 100A1 12.42

Lloyd's COOP with freeboard

Note: - Equpt. Co. bldg., 100A1 covered.

Signature Kennedy Inghs. 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 copy of the Plans should be embodied.)

This vessel is of the Y3 type & a sister vessel of the Empire Lancer G.R. 22 RE

Forging reports are forwarded herewith.

No 2 & 4 holds & tween decks have been insulated.

As required by the London office the plans & specifications have been submitted & a copy of the certificate issued is herewith enclosed.

Hatch covers are not fitted at No 1 & 6 hatches on the second deck but it is the intention of the Owners to fit sparring at No 1, 3 & 5 holds & hatch covers as above at the first opportunity.

Note! All tween deck bulkheads are completely closed & made watertight & hinged steel W.T doors P & S are fitted in the tween deck bulkhead at the fore end of the boiler room.

Note E.S.D fittings & wiring fitted but no apparatus supplied.

#### PARTICULARS OF ELECTRIC WELDING (if employed)

Heads & heels of solid pillars, cruiser stem, boss plating, 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 stem, D.F., E.S.D.   
 Lloyd's A & C.P. pt. Cem.   
 Not Completed

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

1st Bower 44.2.0 : G.G.Y. : 4001 : 19.5.41.  
2nd " 44.0.0 : K.L. : 4471 : 13.12.41.  
3rd "

#### PARTICULARS FOR RECORD in the REGISTER BOOK.

(in feet and tenths). Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle 39.4 ft. When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. 168,991

Signal Letters

Extreme Breadth over Belting (Circ. 1611)

Over-all Length 447.6 (Circ. 1703)

No. and Material of Decks 2 D.Ks.

Parts of Bottom of Vessel coated with cement or approved composition

Flat of bottom in boiler room tank covered with cement, elsewhere cement wedges at seams & butts.

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,	131.75	371	Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,		122
Double bottom, if under Engines only,	25.8	120	Deep tank, aft,		172
Double bottom, if under Boilers only, Dry Tank W.T. Comp.	15.5		Deep tank, forward,		
Double bottom, forward,	193.9	724	Other tanks, if fitted,		
Total length (if continuous) and Capacity.	369.5	1215	(If necessary furnish further information by sketch.)		

Order for Special Survey No. 3487

Date 23<sup>RD</sup> SEPT 1941

Dates of Surveys held while building

(1941) DEC. 23. (1942) FEB. 17. 25. MAR. 18. 26. APR. 9. 16. 21. MAY 1. 5. 11. 13. 21. JUNE 2. 4. 9. 11. 18. 22. JULY 1. 7. 20. 22. 30. AUG. 3. 11. 14. 19. SEPT. 4. 15. 17. 19. 21. 22. 23. 24. 26. 29. 30. OCT. 1. 6. 7. 9. 13. 22. 30. NOV. 2. 4. 9. 16. 18. 24. 25. 27. 30. DEC. 2. 4. 7. 9. 10. 12. 15. 16.

Total No. of Visits 64

For S.O.F. see "Empire Lancer" (G.R. 22086)