

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

Survey held at PORT GLASGOW Date First Survey 14th AUGUST 1942 Last Survey 30th JUNE 1943

On the (State if Machinery fitted Aboard) SINGLE SCREW STEAMER "EMPIRE SERVICE"
(if Single, Twin or Triple Screw)

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) CSS No Tonnage Opening, Freeboard 18" in excess of Vessel with Tonnage Opening. State Type of Erections FORECAST LE

TONNAGE under Tonnage Deck ...	6610.31	CLASS	+ 100A1.	State if with freeboard as condition of Class	YES	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 post on summer L.W.L. See Sec. 3 (1a)		FEET	L 425.0	Launched	MAY 20 TH 1943 Yard No. 982
Total	✓	Breadth (greatest moulded)		B	56.0	Builders	LITHGOWS LIMITED.
Gross Tonnage	7066.83	Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)		D	36.83	HIS MAJESTY, REPRESENTED BY	
Register Tonnage	4802.04	1st Longitudinal Number (L × D)			15194	Owners	THE MINISTER OF WAR TRANSPORT
		2nd Numeral L × (B + D)			38994	Managers	W. J. TATEM L ^{TD}
							(Where necessary to be entered in Reg. Book)

REGISTERED DIMENSIONS.	Framing Depth "d," at middle of length. See Sec. 3 (1d).....	23.4	Residence	CARDIFF
Length.....	Proportions—Depth to Length—Uppermost continuous deck to top of keel.....	11.55	Port of Registry	GREENOCK
Breadth.....	Do. Long Bridge to top of keel.....	✓	If surveyed while building, afloat, or in dry dock	
Depth.....	Draught Moulded	26'-1 1/2"	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	31 ✓		Bracket Floors, Frame	B.A. 6 3 1/2 7/16 ✓	
" " from 3/8 length amidships to Collision bulkhead.....}	27 ✓		" " Reversed Frame.....	B.A. 6 3 1/2 3/16 ✓	
" " in peaks.....	24 ✓		" " Vertical Struts.....	B.A. 10 3 1/2 40 ✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 1/4 x 54 ✓	
Frame Amidships, Angle, E or C	12 3 1/2 56 ✓		" " top Angles.....	3 1/2 3 1/2 48 ✓	
" " Extends up to.....	2 ND DECK ✓		" " bottom Angles.....	4 4 54 ✓	
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	1 @ 38 ✓	
" " Extends up to.....	✓		Margin Plate depth (excl. of flange) and thickness.....	44 x 54 ✓	
Depth of Framing Girder	12 ✓		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem.....	6 1/2 6 1/2 625 T ✓	
Frames in Uppermost Continuous 'tween Decks, Angle, E or C}	6 3 1/2 38 ✓		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area.....	6 1/2 6 1/2 625 T ✓	
" " Second 'tween Decks, Angle, C or C	✓		" " Gussets, spacing and scantling abaft 1/4 len. from stem.....	42 EVERY FRAME ✓	
" " Third	✓		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area.....	42 EVERY FRAME ✓	
" " from 1/2 len. for'd. to 15% len. from Stem.....	15 x 4 x 4 50% 62 CHAN. ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	77 x 44 ✓	
" " in Peaks, Angle or C.....	8 3 1/2 35 ✓		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships}	7/8 @ 7 DIAS BOTTOM ✓ 7/8 @ 6 1/2 " SIDES. ✓		Breadth and thickness of Middle Line Strake.....	83 x 50 ✓	
State if Frame Joggled	YES ✓		Thickness of remainder in Holds.....	44 - 40 ✓	
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?.....	YES ✓	
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}	10 3 1/2 42 ✓	
Floors, Depth and thickness at mid-line in Holds}			Walls, Angle, E or C.....	✓	
Height of Brackets at side above base line at toe of frame.....			" " in way of Bridge, Angle, C or C.....	✓	
Middle Line Keelson, on Floors, Angles, C or C			Spacing.....	31 ✓	
" " Through Plate or Inter-costal Plate.....			Second Deck, amidships, Angle, E or C	12 3 1/2 45 ✓	
" " Foundation Plate on Floors.....			Spacing.....	31 ✓	
" " Flat Plate Keel Angles.....			Third Deck, amidships, Angle, C or C	✓	
Side Keelsons, No. each side			Spacing.....	✓	
" " thickness of Inter-costal Plate.....			Fourth Deck, amidships, Angle, C or C	✓	
" " Angles.....			Spacing.....	✓	
DOUBLE BOTTOM.			Poop Deck, Angle, C or C	✓	
Solid Floors, thickness and spacing	42 EVERY 3 RD FRAME ✓		Spacing.....	✓	
" " Are Frame and Reversed Frame joggled?.....	YES ✓		Bridge Deck, Angle, C or C	✓	
Bracket Floors, breadth and thickness at middle line	32 1/4 x 42 ✓		Spacing.....	✓	
" " breadth and thickness at margin plate.....	32 1/4 x 42 ✓		Forecastle Deck, Angle, E or C	8 3 1/2 42 ✓	
			Spacing.....	27 x 24 ✓	

PILLARS AND DECKS.

PILLARS, No. of Rows	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
Stringer Plate, breadth and thickness in way of Bridge			✓	
Thickness of Plating abreast Deck openings in way of Wells			35	✓
Thickness of Plating abreast Deck openings in way of Bridge			✓	
Thickness of Plating within line of openings			35	✓
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			✓	
Plating, Sheathing, material and thickness			✓	
Bridge Deck.			✓	
Stringer Plate, breadth and thickness			✓	
Plating, Sheathing, material and thickness			✓	
Forecastle Deck.			36	✓
Stringer Plate, breadth and thickness			✓	
Plating, Sheathing, material and thickness			32 W/5 SHEATHED	✓

SHELL PLATING.

STRAKES.	AS IN VESSEL.	ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.	RIVETING.
	AMIDSHIPS.	FORWARD.	State if forced?	BUTTS.
	Breadth.	Thickness.		
Flat Plate Keel	52	78	68	68
" Dblg. (if any)				
Bottom Plating, No. of Strakes	20	60	50	50
Bilge Plating, No. of Strakes	63	50	50	50
Side Plating, No. of Strakes	62	46	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	64	46	46
Strake below Sheer-strake in Bridge	✓			
Poop Side Plating	✓			
Bridge Side Plating	✓			
Forecastle Side Plating	✓			

WATERTIGHT BULKHEADS.

FORGINGS AND CASTINGS.

Total No. of W.T. BULKHEADS in Vessel	Extending to Upper Deck (Sec. 3 c)	Deck next below	As per Rule	STIFFENERS.	KEEL, Bar	STEM	STERN FRAME	RUDDER	Speed of Vessel	RUDDER—Type	" A x D	" Diam. of head	" Mainpiece at top pintle	" heel	" how constructed	" double or single plate coupling, vertical or horizontal
7	6	1	7	VERTICAL.	LOWER PORTION	UPPER PORTION	CASTING	10 1/2 KNOTS	DOUBLE PLATE STREAM LINED	570	FORGING	12"	BEARDMORE	6x10 1/2"	COMPLETE CAST STEEL FRAME	DOUBLE
				HORIZONTAL.	LOWER PORTION	UPPER PORTION	CASTING									VERTICAL
				Scantlings.	Scantlings.	Scantlings.	Scantlings.									
				Spacing.	Spacing.	Spacing.	Spacing.									
MIDSHIP BULKH'D, Upper 'tween decks	26	6x3 1/2	3 1/2	27x30	FLAT PLATE KEEL	LOWER PORTION	UPPER PORTION									
" Second					LOWER PORTION	UPPER PORTION	CASTING									
" Third					LOWER PORTION	UPPER PORTION	CASTING									
" Holds	8.5	44x26	12x3 1/2	45BA27x30	LOWER PORTION	UPPER PORTION	CASTING									
COLLISION (in Hold)	54	29x23 1/2	45BA	24 SEMI-BOX BEAMS	LOWER PORTION	UPPER PORTION	CASTING									
AFTER PEAK	48	30x33	35BA	24 TUNNEL RECESS	LOWER PORTION	UPPER PORTION	CASTING									
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	(OPEN HEARTH)															
Has the Steel been tested as required by the Rules?	YES.															

EQUIPMENT No. 40086

LETTER at

ANCHORS.

Number of Certificate.	Anchor.	WEIGHT, EX. STOCK.	WEIGHT OF STOCK.	TEST, PER CERTIFICATE.	WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested, and Superintendent.
55165	1st Bower	69	3 1/4	53 15 0 0	68	GREENS QUICK GRIP	JOHN GREEN LTD C.H.	27/42 PAUL
55279	2nd	68	2 1/4	53 1 3 14	68	"	"	27/42 NORMAN
	3rd				58 1/2	"	"	
	Collective weight	138	2 3/4		194 1/2	"	"	
54560	Stream	19	0 1/6	4 3 21 19 19 2 21	19	DRURY FGD WROT IRON	KENDRICK MOLE C.H.	26/41 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.	Length and size per Table 53.
3078	270 2"	100.8 141.1	575.0 0 0	720 3/4	270 2 1/2" STUD LINK	STAY LORNSONS N.	8/42. RELF	TOWLINE	120 4 3/4	64.6	120 4 3/4
3079	SHACKLE 2"	"	3.0 18	2" TAYCO SHACKLE	"	"	"	HAWERS & WARPS	90 4 3/4	64.6	200 2 3/4
									2075 2 3/4	15.2	200 2 1/2
									2075 3 3/4	21.7	

Steering Gear, Type (Power) STEAM BY HASTIE GREENOCK

Alternative Means of Steering BLOCKS JACKLED TO AFTER WINCH

Steering Chains (Size and Test) NONE, STEERING GEAR AFT TELE MOTOR CONTROL

Windlass STEAM BY CLYDE CRANE CO. Boats 2

Ceiling in Holds, thickness and material 2 1/2" W.P. OVER BILGES ONLY

Cargo Battens, thickness, material and spacing NOT FITTED BUT CLEATS SUPPLIED

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

Thickness of Hatches 2 1/2" W.P. 3" AT NO 4 HATCH

Size of Hatchways No. 1 (Fwd.) 31' 6" x 20' No. 2 31' x 20' No. 3 12' 11" x 20' No. 4 10' 4" x 20' No. 5 31' x 20' No. 6 31' x 20'

Number of Shifting Beams NO 1. 2. 54 6 = 5 WEBS : NO 3 = 2 : NO 4 = 1 WEB

Builder's Signature FOR LITHGOWS 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).

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 peak tanks, side deep tanks at engine room & forward & fresh water tanks have been tested as required by the rules & found satisfactory. The weather decks, W.T. bulkheads, transverse bulkheads, house tops & funnel & W.T. doors were fire tested & found satisfactory. The foreboard has been verified & the marks cut in on the vessel's sides. The pumps, steering gear, windlass, W.T. doors, auxiliary steering gear & bulge suction were tried & found satisfactory. Emergency equipment has been supplied & no spare is fitted in the 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" rounded.

The amount of Entry Fee £10.0.0

Fees applied for, 3RD JULY 1943.

Special Survey Fee £376.13.6

SPECIFICATION FEE 94.3.0

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 4/8/43

Committee's Minute GLASGOW 56 JUL 1943

Character assigned 1-100 A1

which Freeboard

1-100 A1 67.43

Signature Kennedy & Co.

Surveyor to Lloyd's Register of Shipping.

Note: - Equiv. to 100 covers, 100 tons

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 Y5 type & similar to the Empire Flouzel report No 22357

Forging reports, Midship section as built & approved plans are forwarded herewith.

The plan & specifications have been supervised & a copy of the completing certificate is herewith enclosed together with copy of the entering certificate issued.

All tween decks bulkheads are completely closed & made watertight & hinged steel watertight doors P & S are fitted in the tween deck bulkheads between No 2 & 3 & between 3 & the side bunkers.

It is the intention of the Owners to fit sparring at the first opportunity.

Port fittings for the E.S.D are fitted but the apparatus is not supplied.

Circular M.S 972/42 has been fully complied with.

PARTICULARS OF ELECTRIC WELDING (if employed) leads & leads of solid pillars, cruiser stern, bow plating, covers of bulkheads & tank ends, butts of stringer bar, aux engine seats, tunnel shock & thrust seat, ventilators covers of hatch covering bars, large shock butts amidships, vertical butts of W.T & centre line bulkheads & deckhouses, gussets to tank side.

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

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

1st Bower 44.2.14 J.D.: 4021 : 9.3.42.
2nd " 44.1.21 : J.D.: 4025 : 9.3.42.
3rd "

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. 169505

Signal Letters

Extreme Breadth over Belting
(Circ. 1611)

Over-all Length 447.6
(Circ. 1703)

No. and Material of Decks 2 DR.

Parts of Bottom of Vessel coated with cement or approved composition

flat of bottom in B.R. tank covered with cement.
Sphenic cement wedges at seams & butts & all rust heads covered.

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. 67.16	Tons 257	Fore peak tank,	Feet. 12.2	Tons 122
Double bottom, under Engines and Boilers, +1 Coff D	41.33	194.	After peak tank,		172.
Double bottom, if under Engines only,	✓		Deep tank, aft, P45. TUNNEL SIDES	56.83	485
Double bottom, if under Boilers only,			Deep tank, forward, P45 NO1 HOLD	14.29	368
Double bottom, forward,	193.91	723	Other tanks, if fitted, E.R. WINGS	20.86 P 23.25 S	384
Total length (if continuous) and Capacity	305	1174	(If necessary furnish further information by sketch.)		

Order for Special Survey No. 3495

Date 8th APRIL 1942

Dates of Surveys held while building

(1942) AUG. 14. 20. OCT. 21. 29. NOV. 3. 11. DEC. 24. 29. 31. (1943) JAN. 4. 8. 11. 18. 20. 27. FEB. 3. 8. 10. 17. 22. 24. MAR. 1. 4. 11. 15. 22. APRIL 6. 8. 13. 16. 28. 29. 30. MAY 5. 6. 8. 10. 11. 12. 13. 14. 15. 16. 18. 19. 20. JUNE 1. 2. 3. 4. 6. 9. 11. 22. 23. 24. 25. 26. 27. 28. 30.

Total No. of Visits 62