

STEEL STEAMER or MOTORSHIP.

13 MAY 1942

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

8TH MAY 1942.Port of **GREENOCK**No. **21834**Survey held at **PORT GLASGOW**

Date First Survey

29TH JULY 1941.

Last Survey

6TH MAY

1942.

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

SINGLE SCREW STEAMER 'EMPIRE AUSTEN'

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

COMPLETE SUPERSTRUCTURE WITHOUT TONNAGE OPENING.State Type of Erections **FORECASTLE**

TONNAGE under Tonnage Deck...

6596.33CLASS **100A.1.**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 }
mast on summer L.W.L. See Sec. 3 (1a) } **L 425.0**Launched **MARCH 24TH 1942** Yard No. **969**

Total

Breadth (greatest moulded) **B 56.0**Builders **LITHGOWS LIMITED**
HIS MAJESTY REPRESENTED BY THE

Gross Tonnage

7057.29Depth, 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**
FOR SCANTLING 35.75Owners **MINISTER OF WAR TRANSPORT.**

Register Tonnage

4991.261st Longitudinal Number (L x D) **= 15194**Managers **HONEYMAN & CO.**
(Where necessary to be entered in Reg. Book.)REGISTERED DIMENSIONS.
FEET.

Length

432.2

Framing Depth "d," at middle of length. See Sec. 3 (1d)

23.9

Breadth

56.2

Proportions—Depth to Length—Uppermost continuous deck to top of keel

11.55

Depth

34.25

Do. Long Bridge to top of keel

Draught Moulded **26-1/2**Residence **12, WATERLOO STREET, GLASGOW.**Port of Registry **GREENOCK**

If surveyed while building, afloat, or in dry dock

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	BA 6 3/2 7/16	✓
" " from 3/4 length amidships to Collision bulkhead	27		" " Reversed Frame	BA 6 3/2 3/16	✓
" " in peaks	24		" " Vertical Struts	BA 10 3/2 40	✓
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 1/4 x 54	✓
Frame Amidships, Angle E or F	12 3 1/2 56	✓	" " top Angles	3 1/2 3 1/2 48	✓
" " Extends up to	2ND Dk	✓	" " 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 625T	
Frames in Uppermost Continuous 'tween Decks, Angle E or F	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 625T	
" " Second 'tween Decks, Angle E or F	✓		" " 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 1/4 len. for'd. to 15% len. from Stem	15 x 4 x 4 1/2 50 62	✓ 65.85	Tank Side Brackets, height above base line at toe of Frame and thickness	77 x 44	
" " in Peaks, Angle E or F	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 in Wells, Angle E or F	10 3 1/2 42	✓
Floors, Depth and thickness at mid-line in Holds			" " in way of Bridge, Angle, E or F	✓	
Height of Brackets at side above base line at toe of frame			Spacing	31	
Middle Line Keelson, on Floors, Angles, E or F			Second Deck, amidships, Angle E or F	12 3 1/2 45	
" " Through Plate or Intercostal Plate			Spacing	✓	
" " Foundation Plate on Floors			Third Deck, amidships, Angle, E or F	✓	
" " Flat Plate Keel Angles			Spacing	✓	
Side Keelsons, No. each side			Fourth Deck, amidships, Angle, E or F	✓	
" thickness of Intercostal Plate			Spacing	✓	
" Angles			Poop Deck, Angle, E or F	✓	
DOUBLE BOTTOM.			Spacing	✓	
Solid Floors, thickness and spacing	42 EVERY 3RD FRAME	✓	Bridge Deck, Angle, E or F	✓	
" " Are Frame and Reversed Frame joggled?	YES		Spacing	✓	
Bracket Floors, breadth and thickness at middle line	32 1/4 x 42		Forecastle Deck, Angle, E or F	8 3 42	✓
" " breadth and thickness at margin plate	32 1/4 x 42		Spacing	27 x 24	

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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	✓			
„ in 'tween Decks, Size and Spacing.....	CENTRE LINE BULKHEAD WITH				Thickness of Plating abreast Deck openings in way of Wells	✓	35		
„ „ „ „ „	REINFORCED HATCH SIDE GIRDERS				Thickness of Plating abreast Deck openings in way of Bridge	✓			
„ in Holds „ „	4 HATCH END BEAMS.				Thickness of Plating within line of openings...	✓	35		
„ „ „ „ „					If Sheathed, material and thickness	✓			
Centre Line Bulkhead.					Third Deck.				
Stiffeners and Spacing.....	62"APART	12	3 1/2	45	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	72x	65		✓	If Plated, state thickness	✓			
„ „ „ „ in way of Bridge	✓				Poop Deck.				
„ Angle in Wells	6	6	5/8	✓	Stringer Plate, breadth and thickness	✓			
Thickness of Plating abreast Deck openings in way of Wells	60x	65			Plating, Sheathing, material and thickness ...	✓			
Thickness of Plating abreast Deck openings in way of Bridge	✓				Bridge Deck.				
Thickness of Plating within line of openings...	40				Stringer Plate, breadth and thickness.....	✓			
If Sheathed, material and thickness	NONE				Plating, Sheathing, material and thickness ...	✓			
Second Deck.					Forecastle Deck.				
Stringer Plate, breadth and thickness in Wells...	72x	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. State if jogged? No		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS. Diam. Spacing cr. to cr.	No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth. Inches.	Thickness. Inches.	Thickness. Inches.	Thickness. Inches.					Diam. Inches.	Spacing cr. to cr. Inches.	
FLAT PLATE KEEL	52	78	68	68		DOUBLE	7/8 3 1/4	FOUR	1	4	LAPPED
„ DBLG. (if any) ✓	2 @ 60										
BOTTOM PLATING, No. of Strakes FAHR..}	2 @ 65		50	50				FOUR	7/8	3 1/2	
BILGE PLATING, No. of Strakes ONE.....}	3 @ 65	63	50	50							
SIDE PLATING, No. of Strakes FOUR.....}	1 @ 60		46	46				THREE		3 1/8	
UPPER DECK, Sheer-strake in Wells.....}	58	69	46	46				FOUR		3 1/2	
UPPER DECK, Sheer-strake in Bridge ...} ✓											
STRAKE BELOW Sheer-strake in Wells.....}	58	65	46	46				FOUR			
STRAKE BELOW Sheer-strake in Bridge ...} ✓					THREE STRAKES OF BOTTOM PLATING PLUS 69 FROM 1/2 L TO RULE POSITION OF COLL BND.						
POOP SIDE PLATING	✓				SHELL PLATING IN PANTING AREA PLUS 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.

Total No. of W.T. BULKHEADS in Vessel—	7	7 BH Coll 6 Wdk. 66 1/2 and dk 5 dms. W.T. BHs in br. dks
Extending to Upper Deck (Sec. 3 c)	6	1
„ Deck next below	1	6
As per Rule	7	

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks	26	6x3 1/2x3/8	OA	30"	
„ „ Second „					
„ „ Third „					
„ „ Holds	85	44	26	12x3 1/2x45	BA 27"
COLLISION „ (in Hold)	54	29	12x3 1/2x45	BA 24"	25 SEMI-BOX BEAMS + W.T. FLAT
AFTER PEAK „ „	48	30	7x3x35	BA 24	25 SEMI-BOX BEAMS + TUNNEL RECESS

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar				FLAT PLATE KEEL
STEM	LOWER PORTION ROLLED	10x2 1/2		UPPER PORTION PLATES
STERN FRAME { Propeller Post	CASTING	LINED		BEARDMORE
{ Rudder „	„	PLAN.		
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 1/2x10 5/8		BEARDMORE
„ „ heel ...	„	6x10 5/8		
„ how constructed		COMPLETE CAST STEEL FRAME		
„ double or single plate		DOUBLE 46		
„ coupling, vertical or horizontal.....		VERTICAL		

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	(OPEN HEARTH)
	COLVILLE, STEEL CO OF SCOTLAND, LANARKSHIRE & AMERICAN STEEL.	
	Has the Steel been tested as required by the Rules? YES.	

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.					
26869	1st Bower ...	68	3	7	Stockless			53	5	0	0	68	✓	BYERS IMPROVED	PER W.L. BYERS & CO	L.W. 7/10/41	GREEN.
26871	2nd " ...	68	0	14				52	15	2	14	68	✓	" "	" "	L.W. 7/10/41	"
	3rd " ...											58 1/2	✓				
	Collective weight.											194 1/2	✓				
54527	Stream	19	0	12	4	3	16	19	19	2	21	19	✓	ORDY F&P WROTH IRON	NOT STATED	C.H. 11/1/41	PAUL

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.	
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
116662	225	2 5/16	96 1/4	134 3/4	600.2.0			720 3/4	270	2 5/16	STUD LINK	NOT STATED	N. 24/11/41	RELF	TOWLINE...	120	4 3/4	64.6	120	4 3/4
															HAWSERS & WARPS	2@90	2 3/4	15.2	2@90	2 3/4
															"	2@90	2 1/2	13.2	2@90	2 1/2
Stream } Steel Wire }	90	5			52.8				90	5					"					

Steering Gear, Type (Power or hand)		Steam by Donkin, Newcastle.		Alternative Means of Steering		Blocks tackle led to after winch 1-28' lifeboat with motor							
Steering Chains (Size and Test)		None steering gear aft telemotor control.		Windlass Steam by Clarke Chapman		Boats 1-26' 2-22' "							
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		Thickness of Hatches 2 1/2" W.P. on 2nd D & (except at 34)		Upper 24/3" 28/10" 34/4"							
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 and for Fore and Afters		No 1. 2. 5+6=5 : No 3=2 : No 4=1											
For LITHGOWS LIMITED													
Builder's Signature													

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 the first vessel constructed by Messrs Lithgows Ltd to the Y3 type for the Ministry of War Transport and a fore-castle is again fitted.

Forging reports & midship section & profile & deck plans are forwarded.

As requested by the London office, the plans & specifications have been supervised & a copy of the certificate issued is herewith enclosed.

No cleats nor hatch covers have been fitted to the cargo hatches on the second deck except at Nos 3 & 4 hatchways but it is the intention of the managers to fit covers & sparring at the first opportunity.

PARTICULARS OF ELECTRIC WELDING (if employed) Heads & heels of solid pillars, cruiser stern, boss plating, corners of bulkheads & tank ends, butts of stringer bars, auxiliary engine seats & tunnel stools, thrust seat, ventilators, corners of hatch coaming bars.

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	44.1.0 : R.H.T.G : 4109 : 30.7.41.
2nd "	43.2.7 : R.H.T.G : 4100 : 22.7.41.
3rd "	

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

Official No. 168,983 Signal Letters Extreme Breadth over Belting (Circ. 1611) Over-all Length 447.6 (Circ. 1703)

No. and Material of Decks 2 DKS

Parts of Bottom of Vessel coated with cement or approved composition ☒ Lot of bottom inside boiler room tank covered with cement elsewhere cement wedges at seams & butts of shell, also rivet heads in bottom frames, girders & shell covered 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. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	131.75	371	Fore peak tank,		122
Double bottom, under Engines and Boilers,			After peak tank,		172
Double bottom, if under Engines only,	25.8	120	Deep tank, aft,		
Double bottom, if under Boilers only <i>Dry Tank, W.T. Comp</i>	15.5		Deep tank, forward,		
Double bottom, forward,	193.9	724	Other tanks, if fitted,		
Total length (if continuous) and Capacity	369.6	1215	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 3486

Date 23RD SEPT. 1941.

Dates of Surveys held while building

(1941) JULY 29.30. AUG. 11.28. SEPT. 4.16. OCT. 2.8.13.16.17.20.21.22.31. NOV. 10.12.20.26.24. DEC. 3.10. 12.16.24.29.30. (1942) JAN. 2.5.6.8.9.12.14.15.19.20.24.29. FEB. 2.5.10.12.16.18.21.24.26. MAR. 3.5.6.11.13.18. 23.24.26. APRIL 1.2.3.14.15.17.23.24.27.28. MAY 6.

Total No. of Visits 68.