

STEEL STEAMER OR MOTORSHIP.

Received at London Office

-5 NOV 1942

State if Report has been sent on the Freeboard of the Vessel YESState if Report is sent on the Machinery of the Vessel YESDate of completion of report 30th OCTOBER 1942 Port of GREENOCKNo. 22047Survey held at PORT GLASGOWDate First Survey 2nd JANUARY 1942

Last Survey

23rd OCTOBER 1942

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

SINGLE SCREW STEAMER "EMPIRE PIBROCH"

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

C.S.S. No TONNAGE OPENING, FREEBOARD 18" IN EXCESS OF VESSEL WITH TONNAGE OPENING.State Type of Erections FORECASTLE

TONNAGE under Tonnage Deck ...

6573.61

CLASS

+100 A.1.

State if with freeboard as condition of Class

YESBuilt 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)

L 425.0Launched SEPT 2nd 1942Yard No. 980

Breadth (greatest moulded)

B 56.0Builders LITHGOWS LIMITED

HIS MAJESTY REPRESENTED BY THE

Owners MINISTER OF WAR TRANSPORT.Managers HOLDER BROS LTD

(Where necessary to be entered in Reg. Book)

Residence LONDONPort of Registry GREENOCK

If surveyed while building, afloat, or in dry dock

BUILDING & AFLOAT.

REGISTERED DIMENSIONS.

FEET

Length 432.2Breadth 56.2Depth 34.25

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

23.9

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

11.55

Do. Long Bridge to top of keel

✓

Draught Moulded

26'-1 1/2"

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 1/2 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, <u>E</u> or <u>L</u>	12 3 1/2 56		" " top Angles	3 1/2 3 1/2 48	
" " Extends up to	2 nd 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 62 1/2 T	
Frames in Uppermost Continuous 'tween Decks, Angle, <u>E</u> or <u>L</u>	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 62 1/2 T	
" " Second 'tween Decks, Angle, <u>E</u> or <u>L</u>	✓		" " 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 5/16 62 CHAN.		Tank Side Brackets, height above base line at toe of Frame and thickness	77 x 44	
" " in Peaks, Angle, <u>E</u> or <u>L</u>	8 3 1/2 35		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/8 @ 7 D AS BOTTOM. 3/8 @ 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	Increased under holdways in case of backing
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, <u>E</u> or <u>L</u>	10 3 1/2 42	
Floors, Depth and thickness at mid-line in Holds			" " in way of Bridge, Angle, <u>E</u> or <u>L</u>	✓	
Height of Brackets at side above base line at toe of frame			Spacing	31	
Middle Line Keelson, on Floors, Angles, <u>E</u> or <u>L</u>			Second Deck, amidships, Angle, <u>E</u> or <u>L</u>	12 3 1/2 45	
" " Through Plate or Inter-costal Plate			Spacing	31	
" " Foundation Plate on Floors			Third Deck, amidships, Angle, <u>E</u> or <u>L</u>	✓	
" " Flat Plate Keel Angles			Spacing	✓	
Side Keelsons, No. each side			Fourth Deck, amidships, Angle, <u>E</u> or <u>L</u>	✓	
" " thickness of Inter-costal Plate			Spacing	✓	
" " Angles			Poop Deck, Angle, <u>E</u> or <u>L</u>	✓	
DOUBLE BOTTOM.			Spacing	✓	
Solid Floors, thickness and spacing	42 EVERY 3 rd FRAME		Bridge Deck, Angle, <u>E</u> or <u>L</u>	✓	
" " Are Frame and Reversed Frame joggled?	YES		Spacing	✓	
Bracket Floors, breadth and thickness at middle line	32 1/4 x 42		Forecastle Deck, Angle, <u>E</u> or <u>L</u>	8 3 1/2 42	
" " breadth and thickness at margin plate	32 1/4 x 42		Spacing	27 x 24	

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		Thickness of Plating abreast Deck openings in way of Wells35 ✓	
" " " " " WITH REINFORCED HATCH SIDE			Thickness of Plating abreast Deck openings in way of Bridge.....	✓	
" in Holds " " GIRDERSS 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 3½ .45 ✓		Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of30 ✓		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 ✓			Poop Deck.		
" Angle in Wells	6 6 5/8 ✓		Stringer Plate, breadth and thickness.....	✓	
Thickness of Plating abreast Deck openings in way of Walls609 .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	72 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 joggled? No	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 3/4	FOUR.	1	4	LAPPED	
„ Dblg. (if any)													
Bottom Plating, No. of Strakes ..FOUR....}	2@ .60		.50	.50		"	"	"	FOUR	7/8	3 1/2	BUTTS WELDED & LAPPED	
Bilge Plating, No. of StrakesONE..}	2@ .65		.50	.50		"	"	"	WELDED AMIDSHIPS TREBLE AT ENDS	"	3 1/8	LAPPED	
Side Plating, No. of StrakesFOUR..}	3@ .65		.50	.50		"	"	"	THREE	"	3 1/8	LAPPED.	
Upper Deck, Sheer- strake in Wells.....}	1@ .60		.46	.46		"	"	"	FOUR	"	3 1/2	"	
Upper Deck, Sheer- strake in Bridge ...}	58	.69	.46	.46		"	"	"	FOUR	"	3 1/2	"	
Strake below Sheer- strake in Wells.....}	✓					"	"	"	FOUR	"	"	"	
Strake below Sheer- strake in Bridge ...}	58	.65	.46	.46		"	"	"	FOUR.	"	"	"	
POOP SIDE PLATING.....	✓	THREE STRAKES OF BOTTOM PLATING. P&S. .69 FROM 1/2 LENTO RULE POSITION OF COLLN BND.											
BRIDGE SIDE PLATING.....		SHELL PLATING IN PANTING AREA P&S. INCREASED TO .58 IN LIEU OF SIDE STRINGERS.											
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 to Wdk 6 to 2nd dk)
Extending to Upper Deck (Sec. 3 c)	6	5 divisional W.T. BHs in lower dks
„ Deck next below	1	For closing of openings see page 4 of this report.
As per Rule	7	

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 ROLLER 10x2 1/2	UPPER PORTION PLATES	
STERN FRAME {	Propeller Post	CASTING	STEEL	Co OF
{	Rudder "	"	PLAN.	SCOTLAND
Speed of Vessel		10 1/2 KNOTS		
RUDDER—Type		DOUBLE PLATE	STREAM LINED	
" A x D		570		
" Diam. of head	FORGING.	12	DENNYSTOWN FORGE	
" Mainpiece at top pintle	CASTING	10 1/2 x 10 5/8	STEEL Co OF SCOTLAND	
" " heel	"	6 x 10 5/8		
" how constructed		COMPLETE CAST	STEEL FRAME	
" double or single plate		DOUBLE	.46	
" coupling, vertical or		VERTICAL		
" horizontal				

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP	BULKH'D, Upper 'tween decks	.26	6 x 3 1/2 x 3/8 OA	27"		
"	Second			30"		
"	Third					
"	Holds	.85	44 - 26	12 x 3 1/2 x 45 BA	30" 27"	
COLLISION	(in Hold)	.54	29	12 x 3 1/2 x 45 BA	24"	W. T. FLAT & 2 SEMI-Box BEAMS 2 SEMI-Box BEAMS & TUNNEL RECESS
AFTER PEAK		.48	30	7 x 3 x 35 BA	24"	

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

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

ANCHORS.

HAWSERS AND WARPS

Iron Stream
Chain
Steel Wire

Builder's Signature..... *R. Campbell*

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'-1½" moulded.

002485-002489-0046 2/2

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 1/3 type & sister vessel to Lithgow yard No 979

Forging reports are forwarded herewith.

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

As requested by the London office the plans & specification have been supervised & 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 & 5 holds & hatch covers as above at first opportunity.

NOTE. All tween deck bulkheads are completely closed & made watertight and hinged steel W.T door is fitted ^{on} tween the bulkhead at fire end of boiler room.

PARTICULARS OF ELECTRIC WELDING (if employed) Heads & heels of solid pillars, cruiser stern, boss plating corners of bulkheads & tank ends, butts of stinger bar, auxiliary engine & tunnel & thrust seat stools, ventilators, covers of hatch coaming bars, bulge 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.P. 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 44.3.10: J.D.: 3993: 19.2.42.
2nd " 44.3.0: J.D.: 3996: 19.2.42.
3rd " "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle 39.4

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

Official No. 168,988 Signal Letters ☒ Extreme Breadth over Belting ☒ Over-all Length 447.6

No. and Material of Decks 2 Dks

Parts of Bottom of Vessel coated with cement or approved composition. Flat of bottom in boiler room tank covered with cement. elsewhere cement wedge 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. 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 ^{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. 3495

Date 9th APRIL 1942

Dates of Surveys held while building

(1942) JAN. 2. 6. 14. 29. FEB. 3. 10. 18. MAR. 4. 9. 11. 14. APR. 1. 20. 21. MAY 7. 12. 13. JUNE 1. 4. 9. 14. 19. 22. 23. 25. 26. JULY 2. 14. 15. 17. 21. 24. 28. AUG. 4. 6. 12. 14. 19. 21. 31. SEPT. 2. 3. 10. 11. 15. 16. 22. 25. 28. OCT. 2. 6. 9. 13. 15. 16. 19. 20. 21. 23.

Total No. of Visits 60