

Rpt. 1
RECEIVED

6 APR 1944

IN D.O.

STEEL STEAMER OR ~~MOTORSHIP~~

Received at London Office

6 APR 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 *3rd April 1944* Port of *GLASGOW* No. *68260*Survey held at *GRANGEMOUTH* Date First Survey *23rd APRIL 1943* Last Survey *21st MARCH 1944*On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) *STEEL SINGLE SCREW STEAMER "EMPIRE PYM"* MACHINERY AFTState Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *FULL SCANTLING* State Type of Erections *POOP, TRUNK AND FORECASTLE*TONNAGE under } 1752.22
Tonnage Deck ... }Do. of space or spaces
between Tonnage Dk.
and Upper Dk. }

al 1752.22

ss Tonnage 2370.49

gister Tonnage 1281.29

REGISTERED DIMENSIONS.

FEET

length 290.7

breadth 44.1

depth 19.15

CLASS *+100 A.I.* State if with freeboard } NO
as condition of Class }CARRYING PETROLEUM IN BULK
Length from fore part of stem to after part of stern
post on summer L.W.L. See Sec. 3 (1a) } L 287.0

Breadth (greatest moulded) } B 44.0

Depth, at middle of length from top of keel to top
of beam at side of uppermost continuous
deck. See Sec. 3 (1c) } D 19.5

1st Longitudinal Number (L x D) (287 x 19.5) = 5596

2nd Numeral L x (B + D) 287 x (44.0 + 19.5) = 18224

Framing Depth "d," at middle of length. See
Sec. 3 (1d) } -Proportions—Depth to Length—Uppermost con-
tinuous deck to top of keel } 14.72
Do. Long Bridge to
top of keel }

Draught Moulded } 17'-11 1/2"

Built at *GRANGEMOUTH*Launched *27th NOVEMBER 1943* Yard No. *448*Builders *THE GRANGEMOUTH DOCKYARD CO. LD.*Owners *THE MINISTRY OF WAR TRANSPORT*Managers *F.T. EVERARD AND SONS, LD.*
(Where necessary to be entered in Reg. Book)Residence *6-8, FENCHURCH BUILDINGS, LONDON, E.C.3.*Port of Registry *GRANGEMOUTH*If surveyed while building, afloat, or in dry dock
BUILDING, AFLOAT AND IN DRYDOCK

FRAMES, DOUBLE BOTTOM AND BEAMS.

LONGITUDINAL FRAMING AS PER PAGE 5.	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 <i>40-40 (Old Cofferdam)</i>	24	✓	Bracket Floors, Frame	
" " from 1/2 length amidships to Collision bulkhead <i>40-40 (Old Cofferdam)</i>	18	✓	" " Reversed Frame	
" " in peaks	24	✓	" " Vertical Struts	
SIDE FRAMING.			Centre Girder, depth and thickness amidships <i>50 1/2 x 42</i>	✓
Frame Amidships, Angle, <i>E or F</i>	7 3 34	✓	" " top Angles	Welded direct to tank top
" " Extends up to <i>Upper Deck</i>		✓	" " bottom Angles	Welded direct to flat plate keel
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	<i>One 34</i>
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	
Depth of Framing Girder			" " Vertical Angle to Tank side	<i>Inner bottom in Engine Space only and carried out level to ship's side and heels of side frames electric welded thereto.</i>
Frames in Uppermost Continuous 'tween Decks, Angle, <i>E or F</i>			" " Bracket abaft 1/4 len. from stem	
" " Second 'tween Decks, Angle, <i>E or F</i>			" " Vertical Angle to Tank side	
" " Third			" " Bracket from forward 1/4 len. from stem to Panting Area	
" " from 1/2 len. for'd. to 15% len. from Stem	8 3 35 BA	✓	" " Gussets, spacing and scantling abaft 1/4 len. from stem	
" " in Peaks, Angle or <i>F</i>	6 3 30	✓	" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships	<i>3/4" R spaced 4 1/2" apart</i>	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	<i>None</i>
State if Frame Joggled	<i>Yes</i>	✓	INNER BOTTOM PLATING IN ENGINE SPACE.	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	<i>As approved</i>	✓	Breadth and thickness of Middle Line Strake	<i>126" x 1-0"</i>
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	<i>As approved</i>	✓	Thickness of remainder in Holds	<i>40"</i>
SINGLE BOTTOM. IN BOILER SPACE.			Are Rule requirements complied with regard- ing increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	<i>Yes.</i>
Floors, Depth and thickness at mid-line in Holds	<i>29 x 52 level across</i>	✓	BEAMS.	
Height of Brackets at side above base line at toe of frame	<i>5'-6" in way of bunker</i>	✓	Uppermost Continuous Deck, amidships in Well, Angle, <i>E or F</i>	<i>Longitudinal beams - see Page 5</i>
Middle Line Keelson, on Floors, Angles, <i>E or F</i>	<i>6 4 48 Double</i>	✓	" " in way of Engine, Angle, and and <i>E or F</i>	<i>6 3 30 B.A.</i>
" " Through Plate or Inter- costal Plate	<i>56</i>	✓	" " Spacing	<i>Every frame</i>
" " Foundation Plate on Floors	<i>12 x 56</i>	✓	" " in way of Forecastle	<i>6 3 34 D.A.</i>
" " Flat Plate Keel Angles	<i>Welded direct to flat plate keel</i>	✓	Second Deck, amidships, Angle, <i>E or F</i>	<i>5 3 34 D.A.</i>
Side Keelsons, No. each side	<i>One</i>	✓	" " Spacing	<i>Every frame</i>
" " thickness of Intercoastal Plate	<i>48</i>	✓	Deep Tank Top Forward	
" " Angles	<i>Welded direct to shell and floor</i>	✓	Third Deck, amidships, Angle, <i>E or F</i>	<i>8 3 48 B.A.</i>
DOUBLE BOTTOM. IN ENGINE SPACE.			" " Spacing	<i>7 3 33 B.A.</i>
Solid Floors, thickness and spacing	<i>34. Every frame</i>	✓	" " in way of Forecastle	<i>Every frame</i>
" " Are Frame and Reversed Frame joggled?	<i>Frames only</i>	✓	Fourth Deck, amidships, Angle, <i>E or F</i>	
Bracket Floors, breadth and thickness at middle line			" " Spacing	
" " breadth and thickness at margin plate			Poop Deck, Angle, <i>E or F</i>	<i>5 3 30 and 40 at casing sides.</i>
			" " Spacing	<i>Every frame</i>
			Trunk Top	<i>Longitudinal beams - see Page 5</i>
			Bridge Deck, Angle, <i>E or F</i>	
			" " Spacing	
			Forecastle Deck, Angle, <i>E or F</i>	<i>6 3 34 and 40</i>
			" " Spacing	<i>Every frame</i>

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					
" in 'tween Decks, Size and Spacing					
" " " " " "					
" in Holds " " "					
" " " " " "					
Centre Line Bulkhead. Stiffeners and Spacing	N ^o . 1, 2 and 3 Tanks N ^o . 4 and 5 Tanks	7 3 42 B.A. spaced 24" apart. 8 3 43 B.A. " 24 "			
Plating, thickness of	38" plated vertically.				
STRINGERS AND DECKS.					
Uppermost Continuous Deck.					
Stringer Plate, breadth and thickness in Wells	64½ x .46				
" " " " " " in way of Bridge					
" Angle in Wells	5 5 50				
Thickness of Plating abreast Deck openings } in way of Wells	44				
Thickness of Plating abreast Deck openings } in way of Bridge					
Thickness of Plating within line of openings					
If Sheathed, material and thickness	Unsheathed				
Second Deck. Deep Tank Top Forward					
Stringer Plate, breadth and thickness in Wells	34"				
Stringer Plate, breadth and thickness in way of Bridge					
Thickness of Plating abreast Deck openings } in way of Wells					
Thickness of Plating abreast Deck openings } in way of Bridge					
Thickness of Plating within line of openings					
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	27 x 32				
Plating, Sheathing, material and thickness	30 Unsheathed				
Bridge Deck. Trunk Top.					
Stringer Plate, breadth and thickness					
Plating, Sheathing, material and thickness	40 x 46 Unsheathed				
Forecastle Deck.					
Stringer Plate, breadth and thickness	27 x 32				
Plating, Sheathing, material and thickness	30 Unsheathed				

SHELL PLATING.

SCANTLINGS.					RIVETING.									
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	UPPER EDGES.			BUTTS.					
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? 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.....	50	65	55	55	Approved 50" at ends.	Double	7/8	3 1/4	At ends	3	Welded amidships	3/4	2 5/8	Lapped and strapped.
„ Dblg. (if any)														
Bottom Plating, No. of Strakes 3	48	46	40	46	Approved 40" at ends.	Double	3/4	2 3/4	At ends	3-2	Welded amidships	3/4	2 5/8	Lapped.
Bilge Plating, No. of Strakes 1	46	46	40	46	" 40" " "	Double	3/4	2 3/4	At ends	3-2	Welded amidships	3/4	2 5/8	Lapped.
Side Plating, No. of Strakes 1	44	44	40	46	" 40" " "	Double	3/4	2 3/4	At ends	3-2	Welded amidships	3/4	2 5/8	Lapped.
Upper Deck, Sheer- strake in Wells.....	48	46	45	40	" 40" " "	-	-	-	At ends	3-2	Welded amidships	3/4	2 5/8	Lapped.
Upper Deck, Sheer- strake in Bridge ...														
Strake below Sheer- strake in Wells.....	66	44	40	40		Double	3/4	2 3/4	At ends	3-2	Welded amidships	3/4	2 5/8	Lapped.
Strake below Sheer- strake in Bridge ...														
Poop Side Plating.....				33		Single	3/4	3		1		3/4	2 5/8	Lapped.
Bridge Side Plating.....														
Forecastle Side Plating				35		Single	3/4	3		1		3/4	2 5/8	Lapped.

WATERTIGHT BULKHEADS.

Total No. of ^{ST and} W.T. BULKHEADS in Vessel— 11. 11 BH for record
 Extending to ^{Trunk top} ~~Upper Deck~~ (Sec. 3 c) 9.
 „ ^{Upper} ~~Deck~~ next below 2
 As ~~per Rule~~ ^{approved}

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted
KEEL, Bar				
STEM				
STERN FRAME	{ Propeller Post " Rudder	Rolled Steel $8" \times 2"$ $8\frac{1}{2} \times 5\frac{1}{2}$ $8\frac{1}{2} \times 5\frac{1}{2}$	✓ ✓ ✓	✓ 1 S. Header and Sorel.
Speed of Vessel		10.5K.	✓	
RUDDER—Type		Ordinary double plate.		
" A x D.		273	✓	
" Diam. of head		9	✓	1 S. Header and Sorel.
" Mainpiece at top pintle		Built of steel plates with the		
" " heel		plate arms. Of welded construction.		
" how constructed				
" double or single plate		Double plate.		46" thick.
" coupling, vertical or		Horizontal.		
" horizontal				

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP	O.T. BULKH'D, Upper 'tween decks					
"	" Second					
"	" Third					
"	" Holds	4" 73	38"	8" x 3" 35 BA	28"	1 stringer 24" x 40" 9'0" above
"	"	4" 136	38" 26"	9" x 3" 36 BA and 6" x 3" 36 BA	24"	with 10" x 34" 50 BA beam
COLLISION	" (in Hold)	4" 8	44" 30"	9" x 3" 36 BA and 4" x 3" 30 BA	24"	1 stringer 16" x 40" 15'0" of L.B. 2
AFTER PEAK	"					Deep Tank flat
						1 stringer 27" x 34" 16'3" above

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)				Open Hearth.
	The Steel Company of Scotland, Ltd.	Consett Iron Co. Ltd.	Cowilles, Ltd.	Appley - Frothingham Steel Co. Ltd.	
	Bairds and Scottish Steel, Ltd.	John Williams (Wincor) Ltd.			
	Has the Steel been tested as required by the Rules?				Yes. ✓

PARTICULARS OF LONGITUDINAL FRAMING.

GLASGOW REPORT No. 68260.

FRAMING.		AMIDSHIPS.			ENDS.			Any Departure from Approved Plans to be Noted.	RIVETING.				
		In Ship.			In Ship.				Rivets in Longitudinal Frames.		Spacing of Rivets on each side of Transverses and Bulkheads.	Rivets in Brackets to Bulkheads.	
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.		Diam.	Speng.		Number.	Diameter.
Framing of L or E ^{at Trunk Side}													
Frames in Bridge between Decks		7	3	34	7	3	34	at 26" apart.	3/4	4 1/2			
Frames from Uppermost Continuous Deck	No. 1	10	3 1/2	48	10	3 1/2	48		3/4	4 1/2	8 riv. each side of transverse and bulkheads, spaced 3 1/8	Welded	
	2		"			"			"	"			
	3		"			"			"	"			
	4		"			"			"	"			
	5		"			"			"	"			
	6		"			"			"	"			
	7	10	3 1/2	48	10	3 1/2	48		3/4	4 1/2	8 riv. each side of transverse and bulkheads, spaced 3 1/8	Welded	
	8												
	9												
	10												
	11												
	12												
	13												
	14												
	15												
	16												
Spacing of Longitudinal Frames	at bottom		28"			28"							
Double Bottoms	Tank Top Longitudinals												
	Bottom												
	Amidships												
	At ends												
Transverses.													
Trunk Side	Depth and Thickness	21" to 15" x 40"		21" to 15" x 40"									
(in 'tween Decks)	Face Angles	Flanged 5"		Flanged 5"									
	Lugs to Shell	3 3 40		3 3 40					3/4	3 3/4	4 to trunk side		
Side	Depth and Thickness	21" x 40"		21" x 40" in N°1 Tank									
(in Hold)	Face Angles	5 3 44 D.A. Single		5 3 44 D.A. Single									
	Lugs to Shell	Welded		Welded									
Bottom	Depth and Thickness	33" x 40"		33" x 40" in N°1 Tank									
	Face Angles	9 3 1/2 46 BA Single		9 3 1/2 46 BA Single									
	Lugs to Shell	Welded		Welded in N°1 Tank					3/4	4 1/2	3 3/8" i.e. 4 1/2" dia. see letter 20.4.44		
	" " Back Bars	-		-									
	Brackets	3'3" x 3'6" x 40" 41.5"		3'3" x 3'6" x 40" 41.5" in N°1 Tank									
Spacing of Transverse Frames		8'0"		8'0"									
Longitudinal Beams of	Trunk Top	7	3	34				Spacing.					
	Bridge Deck							28"					
	Upper	7	3	34				28"					
	Second												
	Third												
	Transverse Beams.												
	Plate.												
	Face Angles.												
	Any departure from Approved Plans to be Noted.												

The particulars of framing in peaks (if ordinary), Floors, Centre Girder, Side Girders and Margin Plate and their angle attachments, &c., to be entered in their respective places provided for on the Report Forms.

NOTE.—This slip to be pasted on the fourth page of the Report, and reference to same to be made under framing, &c., on the first page.

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.)

The following plans are applicable to this vessel and are forwarded herewith:—

The following Molding and Casting Certificates are forwarded herewith:—

- ✓ Midship Section. 9 full plans rec'd 11/14/1911
- ✓ Profile and Decks. with 4 mch. plans.
- ✓ After End Framing.
- ✓ Fore End Framing, Plats and Stringers.
- ✓ Oil Fuel Bunkers.
- ✓ Break of Shell at Poop Front Bulkhead.
- ✓ Riveting List.
- ✓ Welding List.
- ✓ Sternframe and Rudder.

Sternframe.
Rudder Head and Couplings.
Yiller.
Quadrant.

Plan of "As fitted" Midship Section forwarded in advance.

PARTICULARS OF ELECTRIC WELDING (if employed) Butts of flat plate keel, bottom shell, side shell, deck, trunk side and trunk top. Butts of centre line bulkhead; centre line bulkhead to flat plate keel; brackets to centre line bulkhead stiffeners, to bottom longitudinal and to transverse bulkhead stiffeners. Stringers to side shell, centre line bulkhead and transverse bulkheads. Bottom and side transverses to shell plating, also butts of transverses. Trunk side to upper deck; trunk top to trunk side. Poop and fore-castle fronts to deck and trunk side. Pump room entrance to trunk top. Oil cargo hatches and cargo hatch to fore hold. Tank top in engine room. Upper deck to shell in way of poop and fore-castle. All light and watertight flats to shell forward. Also other details.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book. Longitudinal Framing at Bottom at Deck and in Trunk. A suitable notation in respect of the electric welding. Lloyd's A and C.P. Machinery Aft. Cruiser Stern. Wireless. Echo sounding. Direction Finder. (1 bow anchor to be supplied at the conclusion of the present emergency).

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

1st Bower	25.3.21	A.E.G.	4731	12.1.43
2nd "	26.1.21	A.E.G.	5235	28.9.43
3rd "				

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 74.8 ft., Trunk 175.2 ft., Bridge ft., Fore-castle 37.0 ft.

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

Official No. 169,104 Signal Letters Extreme Breadth over Belting (Circ. 1611) Over-all Length (Circ. 1703) 301'-9" ✓
No. and Material of Decks One Steel.
Parts of Bottom of Vessel coated with cement or approved composition Peaks, Boiler Room and Pumproom. Double bottom tank in engine room cement washed.
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 (S.W.)	Where Fitted.	Length. Feet.	Water Capacity. Tons (S.W.)
Double bottom, aft,			Fore peak tank,	17.0	33.0
Double bottom, under Engines and Boilers,			After peak tank,	16.0	65.0
Double bottom, if under Engines only,	26.0	41.0	Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,	20.0 ✓	122.0
Double bottom, forward,			Other tanks, if fitted,	3.0	40.0
Total length (if continuous) and Capacity	26.0 ✓	41.0	(If necessary furnish further information by sketch.)	3.0	84.0

Order for Special Survey No. 6695

Date 19.4.43

Dates of Surveys held while building

1943 Apr 23 May 13 19 24 26 Jun 4 11 22 Jul 2 9 12 14 28 Aug 5 6 18 20 25 30 Sep 1 6 9 11 21 Oct 1 8 11 12 18
20 24 28 27 Nov 1 4 5 8 10 12 13 17 22 23 27 30 Dec 3 13 16 24 27 1944 Jan 9 14 18 20 31 Feb 3 8 11 16 21 24 29
Mar 1 2 3 7 8 10 13 14 16 21

Total No. of Visits 92