

Received at London Office

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

Port of GREENOCK

No. 23237

Date First Survey 24th APRIL 1945

.....Last Survey.....31st JANUARY.....

1946

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) STEEL SINGLE SCREW TUG "EMPIRE FRIEDA" MACHINERY AMIDSHIPS

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

State Type of Erections FLUSH DECK

TONNAGE under } 262.17
Tonnage Deck ... }

CLASS ± 100 R.I. FOR State if with freeboard } NO
TANKING SERVICES as condition of Class }

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 } L 115.6
post on summer L.W.L. See Sec. 3 (1a)

Launched 22ND OCTOBER 1945 Yard No. 377

Total

Breadth (greatest moulded) B 27.5

Builders **FERGUSON BROS (PORT GLASGOW) LTD**

Gross Tonnage

294.83

Depth, at middle of length from top of keel to top of lower edge of uppermost annular ring } 13.5

Owners MINISTRY OF WAR TRANSPORT.

Register Tonnage

1st Longitudinal Number (L \times D).....= 1552.4

Managers OVERSEAS TOWAGE & SALVAGE CO. LTD.
(Where necessary to be entered in Reg. Book)

REGISTERED DIMENSIONS.

FEET

Length 116.0

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

Residence **LONDON**

Breadth 27.6

Proportions—Depth to Length—Uppermost continuous deck to top of keel } **8.5**

Port of Registry.....GLASGOW

Depth 12.7.

Do. Long Bridge to }
top of keel }

If surveyed while building, afloat, or in dry dock

Draught Moulded 12-23/4

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.....	21 18 ✓		Bracket Floors, Frame	-
" " from 1/2 length amidships to Collision bulkhead.....}	18 ✓		" " Reversed Frame.....	-
" " in peaks AFT. ✓	21 ✓		" " Vertical Struts	-
SIDE FRAMING.	FORE 18 ✓		Centre Girder, depth and thickness amidships	-
Frame Amidships, Angle, E or F ✓	5 3 .30 ✓		" " top Angles	-
" " Extends up to..... DECK. ✓			" " bottom Angles.....	-
Reversed Frame Amidships, Angle	-		Side Girders, No. each side and thickness.....	-
" " Extends up to ... -			Margin Plate depth (excl. of flange) and thickness	-
Depth of Framing Girder.....	5 BULB ANGLE. ✓		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	-
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	-		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area	-
" " Second 'tween Decks, Angle, [or]	-		" " Gussets, spacing and scantling abaft 1/4 len. from stem.....	-
" " Third " " " " " "	-		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	-
" " from 1/2 len. for'd. to 15% len. from Stem	5 3 .30 ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	-
" " in Peaks, Angle or [.....	5 3 .30 ✓		INNER BOTTOM PLATING.	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4 - 5/4 ✓		Breadth and thickness of Middle Line Strake... -	
State if Frame Joggled.....	YES ✓		Thickness of remainder in Holds	-
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	AS APPROVED. ✓		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?.....	-
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?.....	" " ✓		BEAMS.	
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle, E or F	6 3 .30 IN WAY OF O.B. ✓
Floors, Depth and thickness at mid-line in Holds.....	18 x .30 ✓		" " in way of Base, Angle, E or F	5 3 .30 FOR 2 x AFT. ✓
Height of Brackets at side above base line at toe of frame.....	-		" " Spacing	4 3 .34 B.R. ✓
Middle Line Keelson, on Floors, Angles, [or]	12 x 4 x 4 .36 / .85. ✓		" " Spacing	4 3 .30 E.R. ✓
" " Through Plate or Inter-costal Plate	-		FLAT FOR 2	
" " Foundation Plate on Floors	-		Second Deck, amidships, Angle, E or F	4 3 .34 IN WAY OF TANK ✓
" " Flat Plate Keel Angles	-		" " Spacing	3 2 1/2 .30 ✓
Side Keelsons, No. each side... AT 3 1/4 G.G. ✓	1 ✓		FLAT AFT	
" " STRINGER " " " " " " ✓	1 ✓		Third Deck, amidships, Angle, E or F	4 2 1/2 .34 ✓
" " thickness of Intercostal Plate... -			" " Spacing	EVERY FRAME. ✓
" " Angle	5 4 .40 ✓		Fourth Deck, amidships, Angle, [or]	-
INCREASES IN E & B SPACES & O.F. BUNKERS AS APPROVED. ✓			Spacing.....	-
DOUBLE BOTTOM.			Poop Deck, Angle, [or]	-
Solid Floors, thickness and spacing	-		Spacing.....	-
" " Are Frame and Reversed Frame joggled?	-		Bridge Deck, Angle, [or]	-
Bracket Floors, breadth and thickness at middle line	-		Spacing.....	-
" " breadth and thickness at margin plate.....	-		Forecastle Deck, Angle, [or]	-
			Spacing.....	-

PILLARS AND DECKS.			
	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	
PILLARS, No. of Rows	ONE ✓		
" in 'tween Decks (ACCOMMODATION) Size and Spacing	2 3/4" x 6 1/2"		
" " " " " "	-		
" in Holds " " " "	-		
" " " " " "	-		
Centre Line Bulkhead, Stiffeners and Spacing	-		
Plating, thickness of	-		
STRINGERS AND DECKS.			
Uppermost Continuous Deck.			
Stringer Plate, breadth and thickness in Wells	60 x .35 ✓		
" " " " " in way of Bridge	-		
" Angle in Wells	3 3 .35 ✓		
Thickness of Plating abreast ENGINE CASING Deck openings in way of Wells30 ✓		
Thickness of Plating abreast Deck openings in way of Bridge UNDER WINDLASS375 ✓		
Thickness of Plating within line of openings... ..	.30 x .25 ✓		
If Sheathed, material and thickness.....	5 x 2 1/2 PINE ✓		
FLAT FOR 2 ND Second Deck. PLATED AT HNE OVER ACCOM. FOR 2 ND30 x .26 ✓		
Stringer Plate, breadth and thickness in Wells			
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... ..	.30 x .26 ✓		
If Sheathed, material and thickness.....	-		
FLAT FOR 3 RD Third Deck.			
Stringer Plate, breadth and thickness.....	.26 ✓		
If Plated, state thickness26 ✓		
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.			
Stringer Plate, breadth and thickness.....	-		
Plating, Sheathing, material and thickness...	-		

[illegible]

Total No. of W.T. BULKHEADS in Vessel—	Castings or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
Extending to Upper Deck (Sec. 3 c)		7" 1/4"	✓	
„ Deck next below		7" 1/4"	✓	
As per Rule		7" 3"	✓	204V/446
	KEEL, Bar			
	STEM			
	STERN FRAMES { Propeller Post			

Total No. of W.T. BULKHEADS in Vessel—		3				
Extending to Upper Deck (Sec. 3 c)		3 ✓				
,, Deck next below		-				
As per Rule		3				
		STIFFENERS.				
		Plating Thickness.	VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D,	Upper 'tween decks	-				
"	" Second "	-				
"	" Third "	-				
"	" Hold	FR. 1.1 34" 1/26	5" 3" 30"	24"	30"	W.T. FLAT. ✓
COLLISION	" (in Hold)	FR. 62 34" 1/26	3" 3" 30"	24"	30"	PEAK FLAT ✓
AFTER PEAK	" "	FR. 6 43" 1/30	5" 3" 30"	24"	30"	W.T. FLAT. ✓

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.

[illegible]

LETTER.

ANCHORS.

CHAIN CABLES.										HAWERS AND WARPS.						
Number of Certificate.	Length and size supplied.		Test per Certificate. Stat. - Break- ing.	WEIGHT OF CHAIN CABLE.		AS APPLD Length and Size per Table 58.		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 58.	
	Length.	Diam.		Tons.	Cwts. qrs. lbs.	Per Rule.	Length.					Diam.	Fathoms.		Inch.	Length.
70415	150/3	1 1/8"	20.3	30.4	98.2-12	150	1 1/8"	STUD LINK	R. SYKES & SON	CRADLEY HEATH.		60	6	-	60	6
						Rule 60 3/4	Rule 105				HAWERS & WARPS	60	5	-	60	5
Iron Steam Chain or Steel Wire		Clr.					Clr.				"					
											"					

HAWSERS AND WARPS.

Steering Gear, Type (Power or hand) STEAM BY DONKIN & SONS. ✓ Alternative Means of Steering TILLER WITH BLOCKS & TACKLE. ✓

Alternative Means of Steering *TILLER WITH BLOCKS & TACKLE.* ✓

Steering Chains (Size and Test) $\frac{7}{8}$ " D.I.R. $\frac{9}{8}$ TONS. STEAM. Windlass BY EMERSON, NALKER & CO Boats 2 - 19'-0"

Ceiling in Holds, thickness and material NONE ✓ Cargo Battens, thickness, material and spacing NONE ✓

~~Cargo Hatchways~~ 4—(Upper Deck) STEEL CORNING. ✓ Thickness of Hatches 2 1/2" PINE. ✓

Size of Hatchway, No. 1 (Fwd) 3'-0" x 5'-0" ✓ No. 2 - No. 3 - No. 4 - No. 5 - No. 6 -

Number of Shifting Beams } *NONE* ✓
and/or Fore and Afters }

Builder's Signature.....

FERGUSON BROTHERS (PORT-GLASGOW) LTD.

[Signature] DIRECTOR

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... YES ✓

(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 conformity with the Society's Rules & Regulations for the class contemplated & the Secretary's letter. The scantlings and arrangements are in accordance with or equivalent to those shown on the approved plans. The materials & workmanship are of good quality. The fore & aft peaks, feed, water ballast & bunkers have been tested to rule requirements & found satisfactory. The weather decks & w.t. bulkheads have been hose tested & found satisfactory. Bilge suction & auxiliary steering gear were tried & found efficient. Main steering gear & windlass were tried under working conditions & found efficient. On-board verified marks cut in on the vessel's sides. Oil fuel is carried in bunkers amidsthip F.P. above 150°. The requirements of Section 20 of the Rules complied with. The plans & specification have been supervised & a P.T.O.

The amount of Entry Fee..... £ 3 : 0 : 0 } Fees applied for,
 3 : 7 : 6 } 15th Feb 1946. (Special notations, where part of class, to be stated.)

Special Survey Fee..... £29:10:0
FREEBOARD 4:0:0 Received by me,
 I am of opinion the Vessel should be Classed **± 100 A.1.**

Travelling Expenses, if any £ : :] 19.....

State whether the Vessel has been built under Special Survey YES. Signature W. J. Harrison

Certificate to be sent to GREENOCK OFFICE. Date of issue 2/5/46 Surveyor to Lloyd's Register of Shipping.


Committee's Minute

Character assigned -1- 100 A1 111

For Towing Services

$\therefore \text{inc } 1.46$

1.46 r.v. above 100



0097 1/2

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.)

a/ copy of the completion certificate is enclosed together with a copy of the interim certificate issued.

The plans of midship section & Profile & Decks as built, the approved plans & forging reports are forwarded herewith.

PARTICULARS OF ELECTRIC WELDING (if employed) STERNFRAME & RUDDER, KEEL BUTTS, BOSS PLATE.

FLAT FOR² & AFT TO SHELL. FORE PEAK FLAT TO SHELL. FLOORS & BRACKETS TO BUNKER SIDES IN PASSAGE. BULWARK STAYS TO DECK. OIL BUNKER HATCH COAMINGS.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book "FOR TOWING SERVICES" LLOYDS A&CP.
FITTED FOR OIL FUEL 1.46 F.P. ABOVE 150°F.

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

1st Bower 4-7-5 INCL. CUP & PINS A.E.G.: 6438: 8-8-45
2nd " 3-3-15 A.E.G.: 5572: 7-6-45
3rd " 11-7

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

Official No. 169463. Signal Letters — Extreme Breadth over Belting 29.42' (Circ. 1611) Over-all Length 123.9' (Circ. 1703)

No. and Material of Decks 1 DK (374).

Parts of Bottom of Vessel coated with cement or approved composition. STROKEHOLD & UNDERNEATH CREW SPACE: BITUMINOUS SOLUTION & ENAMEL. OIL BUNKERS: BARE. ELSEWHERE CEMENTED.

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,			Fore peak tank,		6.4
Double bottom, under Engines and Boilers,		-	After peak tank,		27.0
Double bottom, if under Engines only,		-	Deep tank, aft,		-
Double bottom, if under Boilers only,		-	Deep tank, forward,	6.0	12.0
Double bottom, forward,		-	Other tanks, if fitted,		-
Total length (if continuous) and Capacity		-	(If necessary furnish further information by sketch.)		-

Order for Special Survey No. —

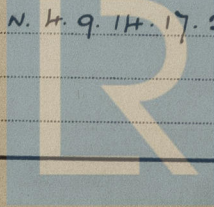
Date —

Dates of Surveys held while building

(1945) APRIL 24. 26. MAY 1. 11. 17. 25. 28. 31. JUNE 4. 13. 18. 25. 28. JULY 16. 30. AUG. 2. 4. 9. 21. 23. 29. 31. SEPT. 3. 5. 4. 12. 14. 17. 19. 21. 24. 27. 28. OCT. 1. 2. 8. 10. 12. 15. 16. 19. 22. 26. 30. NOV. 1. 5. 4. 9. 14. 20. 23. 29. DEC. 5. 14. 18. 26. (1946) JAN. 4. 9. 14. 17. 21. 23. 24. 28. 29. 31.

Total No. of Visits 66.

No S.O.F. available when filed



Lloyd's Register Foundation