

## STEEL STEAMER or MOTORSHIP.

Received at London Office JUN 24 1939

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 22<sup>nd</sup> June 1939. Port of GREENOCK. No. 2041.  
 Survey held at PORT GLASGOW Date First Survey 5<sup>th</sup> DECEMBER 1938. Last Survey 21<sup>st</sup> JUNE 1939.

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) SINGLE SCREW "PETRO" MACHINERY AFT.State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) FULL SCANTLINGState Type of Erections R. Q. DECK.TONNAGE under Tonnage Deck... 343.98CLASS A.1. "FOR COASTING SERVICE, IPSWICH TO DOVER" as condition of Class  
"CARRYING PETROLEUM IN BULK"

NO. FEET.

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) L 157.0Launched 6<sup>th</sup> JUNE 1939. Yard No. 341Total 343.98Breadth (greatest moulded) B 32.0Builders FERGUSON BROS. (PORT GLASGOW) LTDGross Tonnage 444.49Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 10.25Owners UNION LIGHTERAGE CO LTDRegister Tonnage 228.191st Longitudinal Number (L x D) = 1609.25Managers ✓

(Where necessary to be entered in Reg. Book.)

2nd Numeral L x (B + D) = 6633.25Residence ✓REGISTERED DIMENSIONS.  
FEET.Length 157.7Framing Depth "d," at middle of length. See Sec. 3 (1d) 15.31Port of Registry LONDON.Breadth 32.15Proportions—Depth to Length—Uppermost continuous deck to top of keel 15.31

If surveyed while building, afloat, or in dry dock

Depth 8.9Draught Moulded 8'-7 1/2"WHILE 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.
<b>FRAMES, Spacing amidships</b> <u>MOTOR SPACE</u>	19	✓	<b>Bracket Floors, Frame</b> <u>REV ANGLE</u>	4 3 .31	✓
" " from 1/2 length amidships to Collision bulkhead	21 x 20	✓	" " Reversed Frame <u>T. BAR</u>	4 2 1/2 .31	✓
" " in peaks <u>AFT</u>	18, FOR 20	✓	" " Vertical Struts	5 3 .40	✓
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>	12 x .27, 2 1/2 FL	✓
Frame Amidships, Angle, <u>E or F</u>	4 3 .31	✓	" " top Angle	24 x .29	✓
" " Extends up to <u>DECK.</u>		✓	" " bottom Angle	2 1/2 2 1/2 .27	✓
<b>Reversed Frame Amidships, Angle</b>	✓		<b>Side Girders, No. each side and thickness</b>	NONE.	✓
" " Extends up to...	✓		<b>Margin Plate depth (excl. of flange) and thickness</b>	✓	
<b>Depth of Framing Girder</b>	4	✓	" " Vertical Angle to Tank side	✓	
<b>Frames in Uppermost Continuous 'tween Decks, Angle, [ or ]</b>	✓		Bracket abaft 1/2 len. from stem	✓	
" " <b>Second 'tween Decks, Angle, [ or ]</b>	✓		" " Vertical Angle to Tank side	✓	
" " <b>Third " " " "</b>	✓		Bracket from forward 1/2 len. from stem to Panting Area	✓	
" " from 1/2 len. for'd. to 15% len. from Stem	4 1/2 3 .31	✓	" " Gussets, spacing and scantling abaft 1/2 len. from stem	✓	
" " in Peaks, Angle <u>E or F</u>	3 1/2 2 1/2 .31	✓	" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	✓	
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships</b>	5/8 - 7 DIA	✓	<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	✓	
<b>State if Frame Joggled</b>	NO	✓	<b>INNER BOTTOM PLATING, COFFERDAM.</b>		
Are the scantlings and arrangements in the <b>Panting Area</b> in accordance with the Rules and/or as approved?	✓		Breadth and thickness of Middle Line Strake	.30	✓
Are the scantlings and arrangements in way of the <b>Bottom Forward</b> in accordance with the Rules and/or as approved?	✓		Thickness of remainder in Holds	.30	✓
<b>SINGLE BOTTOM. STORE FOR'D</b>			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?	✓	
Floors, Depth and thickness at mid-line in Holds	20 x .29	✓	<b>BEAMS.</b>		
Height of Brackets at side above base line at toe of frame	✓		<b>Uppermost Continuous Deck, amidships</b> <u>SIDE TRUNK</u>	3 1/2 2 1/2 .31	✓
<b>Middle Line Keelson, on Floors, Angles, E or F</b>	2 1/2 2 1/2 .27	✓	" " in way of Bridge, Angle, <u>E or F</u>	3 2 1/2 .31	✓
" " Through Plate or Intercostal Plate	.26	✓	" " Spacing	19"	✓
" " Foundation Plate on Floors	2 1/2 2 1/2 .27	✓	<b>RAISED QUARTER DECK.</b>		
" " Flat Plate Keel Angles	✓		<b>Second Deck, amidships, Angle, E or F</b>	5 2 1/2 .31	✓
<b>Side Keelsons, No. each side</b>	ONE	✓	Spacing	18. 20 x 21	✓
" " thickness of Intercostal Plate	.26	✓	<b>Third Deck, amidships, Angle, [ or ]</b>	✓	
" " Angles	2 1/2 2 1/2 .27	✓	Spacing	✓	
<b>DOUBLE BOTTOM. COFFERDAM.</b>			<b>Fourth Deck, amidships, Angle, [ or ]</b>	✓	
Solid Floors, thickness and spacing	.29 C 12'-8"	✓	Spacing	✓	
" " Are Frame and Reversed Frame joggled?	NO	✓	<b>Poop Deck, Angle, [ or ]</b>	✓	
<b>Bracket Floors, breadth and thickness at middle line</b>	18 x .27	✓	Spacing	✓	
" " breadth and thickness at margin plate <u>SIDE</u>	42 x .27	✓	<b>Bridge Deck, Angle, [ or ]</b>	✓	
			Spacing	✓	
			<b>Forecastle Deck, Angle, E or F</b>	✓	
			Spacing	✓	



# 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.
STORE HOP	2	✓					
in 'tween Decks, Size and Spacing	✓						
STORE	✓						
in Hold	27 DIA. 3'4"	✓					
MOTOR ROOM	27 DIA. 5'6" 6"	✓					
Centre Line Bulkhead.							
Stiffeners and Spacing	4 22 28 19"	✓					
Plating, thickness of	.24	✓					
STRINGERS AND DECKS.							
Uppermost Continuous Deck.							
Stringer Plate, breadth and thickness in Wells	27 x .33	✓					
" " " " in way of Bridge	✓						
" Angle in Wells	3 3 .31	✓					
Thickness of Plating abreast Deck openings in way of Wells	.29						
Thickness of Plating abreast Deck openings in way of Bridge	.28						
Thickness of Plating within line of openings	✓						
If Sheathed, material and thickness	✓						
RAISED QUARTER DECK							
Second Deck.							
Stringer Plate, breadth and thickness in Wells	36 x .31 .27	✓					
Stringer Plate, breadth and thickness in way of Bridge	✓						
Thickness of Plating abreast Deck openings in way of Wells	.29						
Thickness of Plating abreast Deck openings in way of Bridge	.28						
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	✓						
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	✓						

## SHELL PLATING.

SCANTLINGS.					RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.	No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.					Diam.	Spacing cr. to cr.	
FLAT PLATE KEEL	38	.44	.38	.38		DOUBLE	5/8 2 3/8	TREBLE DOUBLET ENDS.	3/4	2 5/8	LAPPED
" DBLG. (if any)											
BOTTOM PLATING, No. of Strakes		.33	.29	.29		DOUBLE	5/8 2 1/9	DOUBLE	5/8	2 1/4	LAPPED
BILGE PLATING, No. of Strakes		.33	.29	.29		DOUBLE	5/8 2 1/9	DOUBLE	5/8	2 1/4	LAPPED
SIDE PLATING, No. of Strakes					BOTTOM STRAKES .37" FOR 2 OF 1/2 LENGTH FOR 2			SINGLE CLEAR OF OIL TANKS.			
UPPER DECK, Sheer-strake in Wells	42	.35	.29	.29		DOUBLE	5/8 2 1/9	DOUBLE	5/8	2 1/4	LAPPED
UPPER DECK, Sheer-strake in Bridge					.52 AT BREAK OF R.O.D.						
STRAKE BELOW Sheer-strake in Wells		.33	.29	.29		DOUBLE	5/8 2 1/9	DOUBLE	5/8	2 1/4	LAPPED
STRAKE BELOW Sheer-strake in Bridge											
POOP SIDE PLATING											
BRIDGE SIDE PLATING											
FORECASTLE SIDE PLATING											

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	
Extending to Upper Deck (Sec. 3 c)	8
" Deck next below	✓
As per Rule	8

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks		✓			
" " Second "		✓			
" " Third "		✓			
" " Holds	.30	5" x 2 1/2" x 31"	18"	STRINGER AT LEVEL OF DECK 15" x 27"	✓
" " (in Hold)	.34	5" x 2 1/2" x 31"	24"	STRINGER 12" x 29"	✓
COLLISION	.39	5" x 2 1/2" x 31"	24"		✓
AFTER PEAK	.27	5" x 3" x 34"	24"		✓

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	STEEL.	✓		
STEM	FORGING	7" x 1 3/8"	FOSTER & SONS. SUNDERLAND.	✓
STERN FRAME				
Propeller Post	STEEL	✓	USINE & ACIERIES LEONARD	
Rudder	CASTING	5 3/4" x 3"		
Speed of Vessel		8 1/2 KNOTS	6107.	
RUDDER—Type		SEMI-BALANCED		
" A x D		✓		
" Diam. of head	STEEL FORGING	4 1/2"	FOSTER & SONS SUNDERLAND	
" Mainpiece at top pintle		5 7/8" x 3 1/2"		
" " heel		5" x 3"		
" how constructed		FORGED & BUILT.		
" double or single plate coupling, vertical or horizontal		.26"		
		NONE.		

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	OPEN HEARTH.
	COLVILLES LTD, THE STEEL CO OF SCOTLAND, DORMAN, LONG & CO LTD, GUEST KEEN BALDWIN'S IRON & STEEL CO LTD, SKINNINGROVE IRON CO LTD,	
	Has the Steel been tested as required by the Rules?	YES







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.)

approved and as built plans are forwarded as shown on separate sheet, together with forging and castings reports and steel test sheets.

SEAMS OF SIDES AND

PARTICULARS OF ELECTRIC WELDING (if employed) BOTTOM CARGO OIL TANKS, BULKHEAD SEAMS & BUTTS, DECK & TRUNK SEAMS, BULKHEAD BRACKETS TO INNER SHELL, CENTRE LINE BULKHEAD AND STIFFENER BRACKETS TO INNER SHELL. RUDDER TRUNK. BEAM KNEES TO INNER SHELL, CENTRE LINE BULKHEAD TO TANK BULKHEADS, TANK BULKHEAD STRINGERS TO BULKHEAD, OIL FUEL TANKS. FRESH WATER & SANITARY TANKS, STORE ROOM HATCH, CASING & TIE PLATE DECKHOUSE SEAMS & BUTTS. COFFERDAM MANHOLES TO DECK, AND MINOR FITTINGS.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book

"FOR COASTING SERVICE, IPSWICH TO DOVER." CARRYING PETROLEUM IN BULK. DECK AND TRUNK ELECTRICALLY WELDED. CENTRE LINE BULKHEAD NON-OILTIGHT. 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  
2nd "  
3rd "

INCE PINS  
5-2-14: F.H.: 5433: 24-6-37  
6-0-21: J.D.: 1146: 20-8-36.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. 43.0 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. 167275. Signal Letters Extreme Breadth over Belting 33.19' Over-all Length 162.0' ✓  
(Circ. 1611) (Circ. 1703)

No. and Material of Decks 1 DK.

Parts of Bottom of Vessel coated with cement or approved composition FORE AND AFTER PEAKS, STORE FORWARD AND MACHINERY SPACE.

Particulars of composition (if fitted) and of approval BITUMASTIC ENAMEL ABOVE CEMENT IN FORE AND AFTER PEAKS. PK chm

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,		21. ✓
Double bottom, under Engines and Boilers,	✓	✓	After peak tank,		29. ✓
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	✓	✓
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	✓	✓
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. 3422

Date 21-11-38

Dates of Surveys held while building

(1938) DEC. 5. 9. 20. 22. 28. 30. (1939) JAN. 10. 13. 16. 23. 24. 25. FEB. 2. 6. 9. 15. 20. 21. 23. 24. 28. MAR. 1. 6. 9. 13. 14. 15. 17. 21. 22. 24. 29. APR. 5. 12. 14. 18. 20. 24. 25. 26. 29. 28. 29. MAY 1. 3. 5. 8. 10. 16. 19. 22. 24. 25. 26. 31. JUNE 2. 6. 8. 14. 16. 21.

Total No. of Visits 62.