

RECEIVED

STEEL STEAMER ~~OR~~ MOTORSHIP

Received at London Office

-4 OCT 1943

5 OCT 1943

State if Report has been sent on the Freeboard of the Vessel NoState if Report is sent on the Machinery of the Vessel Yes

Date of completion of report

18th SEPTEMBER 1943.

Port of

HULL

No.

52145

Survey held at

THORNE.

Date First Survey

11th September 1942.

Last Survey

31st AUGUST

1943

On the

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

STEEL SINGLE SCREW TUG "EMPIRE LEWIS"

State Type

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

FULL SCANTLING.

State Type of Erections

FLUSH DECK.

TONNAGE under Tonnage Deck ...

131.0

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Total

131.0

Gross Tonnage

137.54

Register Tonnage

Nil

REGISTERED DIMENSIONS.

FEET

Length

94.1

Breadth

21.3

Depth

9.75

CLASS ~~SAIDORI~~ FOR TONING SERVICESState if with freeboard as condition of Class No

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)

FEET

L 93.75

Breadth (greatest moulded)

B 21.25

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

D 10.5

1st Longitudinal Number (L x D)

985

2nd Numeral L x (B + D)

2976

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

✓

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

8.93

Do. Long Bridge to top of keel

✓

Draught Moulded

✓

Built at THORNE

Launched 29th MAY 1943

Yard No. 383

Builders RICHARD DUNSTON LTD

Owners MINISTRY OF WAR TRANSPORT.

Managers

(Where necessary to be entered in Reg. Book)

Residence LONDON.

Port of Registry GOOLE

If surveyed while building, afloat, or in dry dock

DURING CONSTRUCTION.

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'	✓	Bracket Floors, Frame		
" " from 1/2 length amidships to Collision bulkhead	21'	✓	" " Reversed Frame		
" " in peaks	21'	✓	" " Vertical Struts		
SIDE FRAMING.			Centre Girder, depth and thickness amidships		
Frame Amidships, Angle,	4 2 1/2 32	✓	" " top Angles		
" " BOILER ROOM	4 2 1/2 38	✓	" " bottom Angles		
" " Extends up to	DECK.	✓	Side Girders, No. each side and thickness		
Reversed Frame Amidships, Angle	2 1/2 2 1/2 26	✓	Margin Plate depth (excl. of flange) and thickness		
" " Extends up to	2 1/2 2 1/2 36	✓	" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem		
Depth of Framing Girder	4"	✓	" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area		
Frames in Uppermost Continuous 'tween Decks, Angle, [or]			" " Gussets, spacing and scantling abaft 1/4 len. from stem		
" " Second 'tween Decks, Angle, [or]			" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area		
" " Third " " " "			Tank Side Brackets, height above base line at toe of Frame and thickness		
" " from 1/2 len. for'd. to 15% len. from Stem			INNER BOTTOM PLATING.		
" " in Peaks, Angle	4 2 1/2 32	✓	Breadth and thickness of Middle Line Strake		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	5/8 - 4 1/2	✓	Thickness of remainder in Holds		
State if Frame Joggled	No	✓	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 the Panting Area in accordance with the Rules and/or as approved?	✓		BEAMS.		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	✓		Uppermost Continuous Deck, amidships	4 2 1/2 32	✓
SINGLE BOTTOM.			" " Walls, Angle,	4 2 1/2 30	1/2 BEAMS
Floors, Depth and thickness at mid-line in Holds	14 " 26	✓	" " in way of Bridge, Angle,	3 2 1/2 30	1/2 "
Height of Brackets at side above base line at toe of frame	✓		Spacing	21'	✓
Middle Line Keelson, on Floors, Angles,	3 1/2 3 38	DOUBLE ✓	Second Deck, amidships, Angle, [or]		
" " Through Plate or Inter-costal Plate	15 " 42	✓	Spacing		
" " Foundation Plate on Floors	12 " 42	✓ each side	Third Deck, amidships, Angle, [or]		
" " Flat Plate Keel Angles	3 1/2 3 1/2 40	DOUBLE ✓	Spacing		
Side Keelsons, No. each side	ONE.	✓	Fourth Deck, amidships, Angle, [or]		
" " thickness of Inter-costal Plate	✓		Spacing		
" " Angles	5 4 48	BOILER ROOM ✓	Poop Deck, Angle, [or]		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing			Bridge Deck, Angle, [or]		
" " Are Frame and Reversed Frame joggled?			Spacing		
Bracket Floors, breadth and thickness at middle line			Forecastle Deck, Angle, [or]		
" " breadth and thickness at margin plate			Spacing		

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	ONE ✓			
" in Tween Decks, Size and Spacing	2 ^d DECK PILLARS W/ CONSTRUCTED WITH FORE & AFT GIRDER FITTED IN FORWARD ACCOMMODATION. ALSO 2 ^d PILLARS AND FORE AND AFT GIRDER IN GREEN SPACE AFT.			
" " " " "				
" in Holds " " "				
" " " " "				
Centre Line Bulkhead. Stiffeners and Spacing				
Plating, thickness of				
STRINGERS AND DECKS. Uppermost Continuous Deck. Stringer Plate, breadth and thickness in Wells	36" x 55" x 30 ✓			
" " " " in way of Bridge	✓			
" Angle in Wells	3 3 30 ✓			
Thickness of Plating abreast Deck openings } in way of Wells30 - .26 ✓			
Thickness of Plating abreast Deck openings } in way of Bridge.....	✓			
Thickness of Plating within line of openings... If Sheathed, material and thickness.....	.32- .30- .26 ✓ PELOTEK FITTED UNDER STEEL DECK IN ACCOMMODATION.			
Second Deck. 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..				
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.

[illegible]

WATERTIGHT BULKHEADS.

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP	BULKH'D, Upper 'tween decks					
"	Second					
"	Third					
"	Holds No 37 340	39-26	4 x 2 1/2 x 34	24'	FLAT	✓
"	"		3 x 2 1/2 x 32			
"	"		4 x 3 x 30	24'	FLAT	✓
"	"		3 x 2 1/2 x 30			
COLLISION	(in Hold) No 48	34-30	4 x 3 x 30	24'	FLAT	✓
"	"		3 x 2 1/2 x 30			
AFTER PEAK	No 5	50-30	3 x 2 1/2 x 26	24'	FLAT	✓
"	"					

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	FLAT	PLATE	KEEL	
STEM	ROLLED BAR	5 1/2 x 1'	APPLEBY FRODIGENHAY	STEEL CO.
STERN FRAME	ROLLED BARS	5 1/2 x 2 1/2	MATERIAL IN APPLEBY FRODIGENHAY STEEL CO. FRAME OF WELDED CROFT'S SHIPBUILDERS AND AUGERED IN TYPHIN	W. BROWN, SHEFFIELD.
Speed of Vessel	12 knots.			
RUDDER—Type	ORDINARY	DOUBLE	PLATE RUDDER.	
A x D	32 x 9 1/2	41 x 8 1/2	= 63.6	
Diam. of head	ROLLED BAR	5 1/2	RUDDER OF WELDED CONSTRUCTION BY R. DUNSTON LTD THARNE.	
Mainpiece at top pintle	"	"		
heel	"	"		
how constructed	ROLLED BAR AND	SIDE PLATES.		
double or single plate coupling, vertical or horizontal	"	28	✓	✓
	No	COUPLING		

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *APPLEBY FRODINGHAM STEEL, SOUTH THURMAN STEEL, DORMAN LONG & CO.*

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.)

THIS VESSEL IS SIMILAR TO EMPIRE SERAPH HULL REPORT NO. 51867

PARTICULARS OF ELECTRIC WELDING (if employed)

STERN FRAME AND RUDDER OF WELDED CONSTRUCTION.
FORWARD AND AFTER FLATS WELDED TO SHELL AND FRAMES.

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

100 H.P. FOR TOWING SERVICES

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

1st Bower

2nd

3rd

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. 169089

Signal Letters

Extreme Breadth over Belting 21-6 1/2

Over-all Length 99-2 1/2

No. and Material of Decks 1 DECK STEEL.

Parts of Bottom of Vessel coated with cement or approved composition. BOTTOM CEMENTED RACE TO RACE.

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.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,			Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,	9'3" + 5'0" COVER	14-25
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,	11.13 TANK 19.25	10-5
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. 3327.

Date 6. 7. 42.

Dates of Surveys held while building

1942. Sept. 11. 15. 23. Oct. 6. 28. Nov. 3. 10. 17. 20. 24. Dec. 1. 8. 14. 17. 29.
1943. Jan. 4. 13. 19. 21. Feb. 1. 8. 12. 22. Mar. 3. 10. 17. 24. Apr. 2. 9. 16. 21. 28. May 4. 11. 17. 19. 26. 31.
June 4. 10. 24. 25 July 1. 5. 13. 15. 20. 22. 28. Aug. 3. 10. 11. 19. 26. 31.

Total No. of Visits 55.