

15 SEP 1944

No

YES

No.

Date First Survey

### Last Survey

1941

STEEL SINGLE SCREW TUG. "EMPIRE MAPLE"

Full Scantling, Complete Superstructure  
with or without Tonnage Openings

Full Scantling

State Type of Erections *FLUSH DECK.*

173.14

CLASS ~~A~~ 100A.1.  
FOR TOWING SERVICES  
PERSONS

State if with freeboard  
as condition of Class

*Built at*

THORNE

1

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

92.0

Launched 20<sup>TH</sup> MAY 1941. Yard No. 358

Builders *RICHARD DUNSTON 179*

Owners *MINISTRY OF SHIPPING.*

## 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

	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>	<i>21'</i>		<b>Bracket Floors, Frame .....</b>		
" " from $\frac{3}{8}$ length amidships to } Collision bulkhead.....)	<i>21'</i>		" " Reversed Frame .....		
" " in peaks.....)	<i>21'</i>		" " Vertical Struts .....		
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>	<i>30"</i>	<i>x .40 ✓</i>
Frame Amidships, Angle, <del>E-F</del> <i>In Boiler Room Spaces</i>	<i>4 2½ .32 ✓</i>		" " top Angles .....	<i>2½ 2½ .38 Single ✓</i>	
" " Extends up to <i>Dock</i>			" " bottom Angles .....	<i>3 3 .42 Single ✓</i>	
<b>Reversed Frame Amidships, Angle .....</b>	<i>2½ 2½ .36 ✓</i>		<b>Side Girders, No. each side and thickness .....</b>		
" " Extends up to... <i>Across Floors,</i>	<i>4"</i>		<b>Margin Plate depth (excl. of flange) and thickness .....</b>		
<b>Depth of Framing Girder.....</b>	<i>4"</i>		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem .....		
<b>Frames in Uppermost Continuous 'tween Decks, Angle, [ or ] .....</b>			" " Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area .....		
" " <b>Second 'tween Decks, Angle, [ or ]</b>			" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem .....		
" " <b>Third</b> "			" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area .....		
" <b>from <math>\frac{1}{4}</math> len. for'd. to 15% len. from Stem .....</b>			<b>Tank Side Brackets, height above base line at toe of Frame and thickness }</b>		
" <b>in Peaks, Angle =F .....</b>	<i>4 2½ .32 ✓</i>		<b>INNER BOTTOM PLATING, RESERVE FEET TANK TOP</b>		
<b>Diameter and Spacing of Rivets through Frame and Shell Platingamid-ships .....</b>	<i>⅝ - ¼"</i>		Breadth and thickness of Middle Line Strake ...	<i>48' x .36 ✓</i>	
<b>State if Frame Joggled .....</b>	<i>No</i>		Thickness of remainder in Holds .....	<i>.44 ✓</i>	
Are the scantlings and arrangements in the <b>Panting Area</b> in accordance with the Rules and/or 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 <b>Bottom Forward</b> in accordance with the Rules and/or as approved? .....			<b>BEAMS.</b>		
<b>INGLE BOTTOM.</b>			<b>Uppermost Continuous Deck, amidships }</b>	<i>4 3 .32 ✓</i>	
<b>Floors, Depth and thickness at mid-line in Holds .....</b>	<i>14' x .36 In Boiler Space ✓</i>		" " <b>in way of Bridge, Angle, }</b>	<i>4 3 .30 ½ girth ✓</i>	
Height of Brackets at side above base line at toe of frame .....	<i>✓</i>		" " <b>Spacing .....</b>	<i>21' ✓</i>	
<b>Middle Line Keelson, on Floor, Angles, }</b>	<i>3½ 3 .38 Double ✓</i>		<b>Second Deck, amidships, Angle, [ or ] .....</b>		
" " Through Plate <del>=E=F</del> <i>Internal Plate</i> .....	<i>.42 ✓</i>		" " <b>Spacing .....</b>		
" " Foundation Plate on Floors .....	<i>12' x .42 Each Side of Centre ✓</i>		<b>Third Deck, amidships, Angle, [ or ] .....</b>		
" " Flat Plate Keel Angles	<i>3½ 3½ .40 Double To 30' ✓</i>		" " <b>Spacing .....</b>		
<b>Side Keels, No. each side ONE .....</b>			<b>Fourth Deck, amidships, Angle, [ or ] .....</b>		
" " thickness of Intercoastal Plate...			" " <b>Spacing .....</b>		
" " Angles .....	<i>5 4 .48 In Boiler Room ✓</i>		<b>Poop Deck, Angle, [ or ] .....</b>		
" " <i>FRAMES.</i>	<i>5 4 .38 Full of Boiler Room ✓</i>		" " <b>Spacing .....</b>		
<b>DOUBLE BOTTOM, 23' x 30' Reserve Feet Tank</b>			<b>Bridge Deck, Angle, [ or ] .....</b>		
<b>Solid Floors, thickness and spacing .....</b>	<i>30' x .36 - 21' Spacing ✓</i>		" " <b>Spacing .....</b>		
" Are Frame and Reversed Frame joggled? .....	<i>No ✓</i>		<b>Forecastle Deck, Angle, [ or ] .....</b>		
<b>Bracket Floors, breadth and thickness at middle line .....</b>			" " <b>Spacing .....</b>		
" " breadth and thickness at margin plate .....					



## 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.
<b>PILLARS, No. of Rows.....</b> <i>ONE</i> ✓			Stringer Plate, breadth and thickness in way of Bridge .....		
„ in 'tween Decks, Size and Spacing.....	<i>2 1/4' DIB PILLARS IN CONJUNCTION WITH FORE AND AFT GIRDERS FITTED IN FORWARD PART OF SPACE.</i> ✓		Thickness of Plating abreast Deck openings in way of Wells .....		
„ „ „ „ „			Thickness of Plating abreast Deck openings in way of Bridge .....		
„ in Holds „ „			Thickness of Plating within line of openings...		
„ „ „ „			If Sheathed, material and thickness .....		
<b>Centre Line Bulkhead.</b>			<b>Third Deck.</b>		
Stiffeners and Spacing.....			Stringer Plate, breadth and thickness.....		
Plating, thickness of .....			If Plated, state thickness.....		
<b>STRINGERS AND DECKS.</b>			<b>Fourth Deck.</b>		
<b>Uppermost Continuous Deck.</b>			Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells.....	<i>35" to 58" - 30</i> ✓		If Plated, state thickness .....		
„ „ „ „ in way of Bridge	✓		<b>Poop Deck.</b>		
„ Angle in Wells .....	<i>3 3 - 30</i> ✓		Stringer Plate, breadth and thickness .....		
Thickness of Plating abreast Deck openings in way of Wells .....	<i>30 - 26</i> ✓		Plating, Sheathing, material and thickness ...		
Thickness of Plating abreast Deck openings in way of Bridge .....	✓		<b>Bridge Deck.</b>		
Thickness of Plating within line of openings...	<i>32 - 30 - 26</i> ✓		Stringer Plate, breadth and thickness.....		
If Sheathed, material and thickness .....	✓		Plating, Sheathing, material and thickness ...		
<i>CELOTEX FITTED UNDER STEEL DECK</i> ✓			<b>Forecastle Deck.</b>		
<b>Second Deck.</b>			Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells...	✓		Plating, Sheathing, material and thickness ...		

## SHELL PLATING.

[illegible]

## WATERTIGHT BULKHEADS.

Total No. of <b>W.T. BULKHEADS</b> in Vessel—	
Extending to Upper Deck (Sec. 3 c)	5 ✓
„ Deck next below	✓
As per Rule	3

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
<b>KEEL, Bar</b> .....		<b>FLAT PLATE KEEL.</b>		
<b>STEM</b> .....	<b>ROLLED</b> AAA	<b>52.1</b>	<b>DORMAN LONG &amp; Co.</b>	<b>MATERIAL BY APPOINT</b>
<b>STERN FRAME</b> {	<b>Propeller Post</b> .....	<b>ROLLED</b> AAA	<b>54.25</b>	<b>PROVIDENCE STEEL CO.</b>
{	<b>Rudder</b> .....	<b>54.25</b>	<b>FRANK MILBURN &amp; Co.</b>	<b>BY RICHARD DUNSTON</b>
				<b>120 RUMBLE IN T</b>
<b>Speed of Vessel</b> .....	<b>12 KNOTS.</b>			<b>FIRTH &amp; BROWN SHEFFIELD</b>
<b>RUDDER—Type</b> .....		<b>ORDINARY DOUBLE PLATE RUDDER.</b>		
"	<b>A x D</b> .....	<b>32.49 x 1.875</b>	<b>= 636.</b>	
"	<b>Diam. of head</b> .....	<b>ROLLED</b> AAA	<b>5 in.</b>	<b>RUDDER CONSTRUCTED</b>
"	<b>Mainpiece at top pintle</b> .....	"	"	<b>BY</b>
"	<b>heel</b> .....	"	"	<b>SHAW-WILKINS.</b>
"	<b>how constructed</b> .....	<b>ROLLED AAA POST AND SIDE PLATES.</b>		
"	<b>double or single plate</b> .....	<b>✓</b>	<b>.28</b>	<b>✓</b>
"	<b>coupling, vertical or</b> .....			
"	<b>horizontal</b> .....	<b>No COUPLING. CAST STEEL CLASH.</b>		

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks						
"	"	Second	"			
"	"	Third	"			
"	"	Holds	No 38 7 <sup>th</sup> 39'-26"	4 x 3 x 30	27' ✓	35'
			Bonnet 3 x 2 1/2 x 30			FLAT ✓
COLLISION		(in Hold)	48' 34'-30"	6 x 3 x 48	24' ✓	35'
			4008 3 x 2 1/2 x 30			FLAT ✓
AFTER PEAK		"	5' 50'-30"	3 x 2 1/2 x 26	24' ✓	✓ ✓

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)

STEEL.

Has the Steel been tested as required by the Rules? **Yes.**

## OPEN HEARTH PROCESS

Lloyd's Register  
Foundation



EQUIPMENT No 2950 ✓												LETTER	ANCHORS. ✓		
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.	
53655	1st Bower ...	Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	ORDINARY FORGED		
53656	2nd " ...	4	0	6	1	0	8	6	7	2	0	4	HAUGHT IRON ANCHOR	NAME NOT GIVEN	RODOLPH HENRY 6-11-40 ST. PAUL
✓	3rd " ...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	"	"	" 6-11-40 "
✓	Collective weight.	8	0	12	2	0	14		✓			8	✓	✓	✓
✓	Stream .....	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Length and size supplied.	Test per Certificate.		WEIGHT OF CHAIN CABLE.				Length and size per Table 53.	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 53.				
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.			Fathoms.	Ins.	Tons.	Fathoms.	Ins.		
62136	60 3/4	7/8	13 3/4	20 5/8	24	3	19	23 1/2	60	7/8	STEEL LINK & HADLEY'S TONS	RODLEY MARTIN 5-11-40 S.C. PAUL.	TOWLINE	✓	✓	✓	✓	✓	✓
													HAWSERS & WARPS	60	5 1/2	✓	60	5 1/2	✓
													"	60	3	✓	60	3	✓
													"	✓	✓	✓	✓	✓	✓
Iron Steam Chain or Steel Wire	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Steering Gear, Type (Power or hand) *STEAM STEERING GEAR BY DOUGLAS & CO. NEWCASTLE-ON-TYNE.* Alternative Means of Steering *TILLER AND BLOCKS AND TACKLE.*

Steering Chains (Size and Test) *3/4" DIA. TEST 6 3/4 TONS.* Windlass *STEAM BY EMERSON WALKER LTD. 4 CERTINER.* Boats *2 Wood Liners 16'0" x 5'7 1/2" x 2'3"*

Ceiling in Holds, thickness and material *✓* Cargo Battens, thickness, material and spacing *✓*

Cargo Hatchways.—(Upper Deck) *2 PAUL HATCHES ON CASING TOP.* Thickness of Hatches *STEEL HINGED COVERS.*

Size of Hatchways No. 1 (Fwd.) *✓* No. 2 *✓* No. 3 *✓* No. 4 *✓* No. 5 *✓* No. 6 *✓*

Number of Shifting Beams and/or Fore and Afters *✓*

Builder's Signature

PER PRO RICHARD DUNSTON, LTD.

*Richard Dunston*

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 *No*

(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 accordance with the approved plans and specification, and in conformity with the Rules for the class contemplated.*

*The materials and workmanship are good.*

*The fore and after peak tanks, the boiler feed tank and fresh water tank have been tested to Rule requirements and found satisfactory.*

*Decks, Carriage, H.T. bulkheads, H.T. door, steering gear and windlass have been tested and found satisfactory.*

*The fore and after peaks were tested as tanks. These peaks have now been deepened with an tank, and are to be dry tanks in accordance with Admiralty instructions to the Builder. Section pipes to both peaks have been removed and a man hole fitted to fore and after peak bulkheads with red metal to upper deck inside peaks, for drainage to bilge.*

The amount of Entry Fee ..... £ *2-0-0*

Special Survey Fee.... £ *20-0-0*

Supervision of Specification £ *5-0-0*

Travelling Expenses, if any £ *6-18-9*

Fees applied for,

*13 SEP 1941*

Received by me,

19.

(Special notations, where part of class, to be stated.)

I am of opinion the Vessel should be Classed *A100A1.*

FOR TOWING SERVICES

SENGONG

State whether the Vessel has been built under Special Survey *Yes.*

Signature

*Richard Dunston*

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to

*Hull.*

Date of issue

*3/10/41*

Committee's Minute

*TUE. 30 SEP 1941*

Character assigned

*+ 100A1*

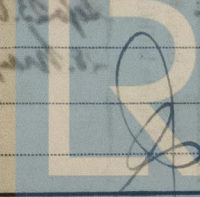
*For Towing Services*

*Lloyd's Register*

*+ LMC 9.41*

*FD. OG.*

*Note &c.*



Lloyd's Register Foundation



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 approved plan is retained for dealing with sister vessels at present under construction.

PARTICULARS OF ELECTRIC WELDING (if employed)

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

10001. 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. 168772

Signal Letters

Extreme Breadth over Belting 20'9"

Over-all Length 97'6"

No. and Material of Decks 104 STEEL

Parts of Bottom of Vessel coated with cement or approved composition ALL BOTTOM COATED WITH CEMENT. BILGE TO RAIL.

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, <del>the</del> <i>PRIDMORE RESERVE FEED TANK.</i>	12.25	11½	Fore peak tank,	7.5	11
Double bottom, under Engines and Boilers,	✓	✓	After peak tank,	9.16 + 5.0 COUSTR	14.16
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, <i>F.W. TANK FRAMES 38 &amp; 40.</i>	3.5	6
Total length (if continuous) and Capacity	✓	✓	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 3224

Date. 2<sup>nd</sup> AUGUST 1940.

Dates of Surveys held while building

1940  
Sep. 23. Oct. 1. 10. 25. Nov. 6. 25. Dec. 4. 11. 23. - 1941.  
Jan. 3. 16. 22. 30. Feb. 7. 21. Mar. 3. 6. 20. 26. Apr. 1. 7. 16. 23.  
28. May. 5. 7. 13. 20. 26. 29. June 5. 11. 20. July 8. 18. 24. 31. Aug. 19. 25. Sep. 1.

Total No. of Visits 110