

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

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Steel single screw tug "EMPIRE CHARLES"

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Full Scantling State Type of Erections None.

TONNAGE under } 228.85  
Tonnage Deck ... }  
CLASS ~~100~~ A-1. State if with freeboard } No. /  
as condition of Class } Built at Hesse.

No. 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 105'-

Breadth (greatest moulded) B 24'-8"

Launched 1st November 1943 Yard No. 432

D. H. Messia Messia Isaac & Co.

Total 228.85 Depth, at middle of length from top of keel to top of beam at side of uppermost continuous } 13-8' 0" 1/2  
The Merrimack & Worcester Canal

Register Tonnage Nil 1st Longitudinal Number (L x D) 1417 Managers ✓

REGISTERED DIMENSIONS.

length	106.75	Proportions—Depth to Length—Uppermost continuous deck to top of keel	7.77 ✓	Port of Registry	Stell.
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Breadth ..... 26.7 Do. Long Bridge to } ..... ✓ If surveyed while building, afloat, or in dry dock  
top of keel }

Depth 11.6 Draught Moulded 12' 3 1/4" Hulling 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.
<b>FRAMES, Spacing amidships.....</b>	21"	✓	<b>Bracket Floors, Frame .....</b>	✓	
" " <b>from 1/2 length amidships to Collision bulkhead.....</b>	22" IN BLR. ROOM	✓	" " <b>Reversed Frame.....</b>	✓	
" " <b>in peaks .....</b>	21	✓	" " <b>Vertical Struts .....</b>	✓	
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>	30" x 4 1/4"	✓
<b>Frame Amidships, Angle, E or F.....</b>	5 3 30	✓	" " <b>top Angle.....</b>	SINGLE 2 1/2 2 1/2 38	✓
" <b>IN BOILER ROOM &amp; BUNKERS.....</b>	5 3 36	✓	" " <b>bottom Angle.....</b>	" 3 3 42	✓
" <b>Extends up to.....</b>	UPPER DECK.	✓	<b>Side Girders, No. each side and thickness.....</b>		
<b>Reversed Frame Amidships, Angle .....</b>	2 1/2 2 1/2 36	✓	<b>Margin Plate depth (excl. of flange) and thickness .....</b>		
" <b>Extends up to.....</b>	3 3 40	✓	" <b>Vertical Angle to Tank side Bracket abaft 1/4 len. from stem .....</b>		
<b>ACROSS FLOORS</b>	3 1/2 3 1/2 7 1/6	✓	" <b>Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area</b>		
<b>Depth of Framing Girder.....</b>	5"	✓	" <b>Gussets, spacing and scantling abaft 1/4 len. from stem.....</b>		
<b>Frames in Uppermost Continuous 'tween Decks, Angle, E or F.....</b>			" <b>Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area .....</b>		
" <b>Second 'tween Decks, Angle, E or F.....</b>			<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>		
" <b>Third .....</b>			<b>INNER BOTTOM PLATING.</b>		
" <b>from 1/2 len. for'd. to 15% len. from Stem .....</b>			<b>Breadth and thickness of Middle Line Strake.....</b>	58" x 42	✓
" <b>in Peaks, Angle or E.....</b>	5 3 30	✓	<b>Thickness of remainder in Holds .....</b>	44	✓
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships .....</b>	5/8" - 4 1/2"	✓	<b>Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. &amp; B. space and framing in Bunkers and Boiler Room?.....</b>	46	✓
<b>State if Frame Joggled.....</b>	160.	✓	<b>BEAMS.</b>		
<b>Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved? .....</b>	AS APPROVED.	✓	<b>Uppermost Continuous Deck, amidships in Wells, Angle, E or F.....</b>	5 3 32	✓
<b>Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved? .....</b>			" <b>in way of Bridge, Angle, E or F.....</b>	4 2 1/2 30	✓
<b>SINGLE BOTTOM.</b>			" <b>HALF BEAMS</b>		
<b>Floors, Depth and thickness at mid-line in Holds.....</b>	17" x 30"	✓	<b>Spacing .....</b>	21" & 22"	✓
<b>Height of Brackets at side above base line at toe of frame.....</b>	40 IN BLR. ROOM	✓	<b>Second Deck, amidships, Angle, E or F .....</b>		
<b>Middle Line Keelson, on Floors, Angles, E or F.....</b>	3 1/2 x 3 1/2 x 40 DBL IN BLR. ROOM	✓	<b>Spacing .....</b>		
" <b>Through Plate or Inter-costal Plate .....</b>	3 1/2 x 3 x 30" FORWARD.	✓	<b>Third Deck, amidships, Angle, E or F .....</b>		
" <b>Foundation Plate on Floors .....</b>	42 IN BLR. RM.	✓	<b>Spacing.....</b>		
" <b>Flat Plate Keel Angles .....</b>	30 INTERCOSTAL FORWARD.	✓	<b>Fourth Deck, amidships, Angle, E or F .....</b>		
<b>Side Keelsons, No. each side.....</b>	12" x 34	✓	<b>Spacing.....</b>		
" <b>thickness of Intercostal Plate.....</b>	42 IN BLR. RM.	✓	<b>Poop Deck, Angle, E or F .....</b>		
" <b>Angles .....</b>	3 1/2 x 3 1/2 x 46 DBL IN BLR. RM.	✓	<b>Spacing.....</b>		
<b>DOUBLE BOTTOM.</b>			<b>Bridge Deck, Angle, E or F .....</b>		
<b>Solid Floors, thickness and spacing (FRAMES 25 TO 36).....</b>	ONE	✓	<b>Spacing.....</b>		
" <b>Are Frame and Reversed Frame joggled? .....</b>	5 x 4 x 38 FORWARD BLR. RM.	✓	<b>Forecastle Deck, Angle, E or F .....</b>		
<b>Bracket Floors, breadth and thickness at middle line .....</b>	5 x 4 x 48 IN BLR. RM.	✓	<b>Spacing.....</b>		
" <b>breadth and thickness at margin plate.....</b>	36 - 21" 22"	✓			



OUT)

## SHELL PLATING.

GES. *yes.*

Lloyd's Register  
Foundation



EQUIPMENT No. ✓												LETTER ✓		ANCHORS.	
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested, and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.			
56919...	1st Bower ...	6	2	12	Stockless	8	17	2	0	✓	6 1/2	Britannia (Cast Steel head)	Richard	Bradley Heath	
56920	2nd ,,	6	0	22	"	8	10	0	0	✓	6	"	Lukes & Son	8-12-43. W.W. Bony	
	3rd ,,				"							"	"	"	
	Collective weight	12	3	6	19 1/2						12 1/2			5-2-301.	
✓	Stream		✓											20 1/2 19 1	

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.		
	Length.	Diam.	Statutory.	Breaking.	Supplied.	Per Rule.	Length.	Diam.	Length.					Ins.	Fathoms.		Ins.	Tons.	Fathoms.
2488	75 3/4	1	18	27	40 - 3 - 16			90	1	stud	W. Hingley	Netherton 15.12.43. J.A. Relf.	TOWLINE	✓					
2497	75 3/4	1	18	27	40 - 2 - 20					link	Sons Ltd	16.12.43. J.A. Relf.	HAWSERS & WARPS }	60	6		60	6	
															60	4 1/2		60	4 1/2
Iron Stream Chain or Steel Wire }	✓	✓						✓	✓										

Steering Gear, Type (Power or hand) STEAM & HAND STEERING GEAR - DONKIN & CO. LD. Alternative Means of Steering TILER WITH BLOCKS & TACKLE.

Steering Chains (Size and Test) 7/8" DIAR - 9 1/8 TONS. Windlass STEAM-EMERSON, WALKER & CO. LD. Boats 2-17'0" LIFEBOATS.

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

Cargo Hatchways, (Upper Deck) NONE. Thickness of Hatches ✓

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.

SECRETARY.

**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 ship has been built in conformity with the Society's Rules and Regulations and the Secretary's letters. The scantlings and arrangements are in accordance with, or equivalent to, those shown on the approved plans." The supervision of the Specification has been carried out. The materials & workmanship are good.

Fore and after peak tanks, reserve feed and fresh water tanks have been tested to rule requirements and found in order.

Decks, casings, watertight bulkheads, skylights, hatchways &c. holed and found in order.

Windlass & steering arrangements tried under working conditions and found in order.

A freeboard has been assigned, the marks cut in on the vessel's sides and verified.

The amount of Entry Fee..... £ 2 : 0 : 0 Fees applied for, (Special notations, where part of class, to be stated.)

FREEBOARD FEE £ 4 : 0 : 0 FEB 1944

Special Survey Fee..... £ 24 : 8 : 0

SUPERVISION OF SPECIFICATION £ 6 : 2 : 0 Received by me,

Travelling Expenses, if any..... £ 3 : 2 : 0 19

I am of opinion the Vessel should be Classed + 100 A1.

"FOR TOWING SERVICES"

State whether the Vessel has been built under Special Survey No. Signature J. Macleod

Certificates to be sent to Still. Date of issue 18/3/44 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Character assigned + 100 A1

For Towing Services

Lloyd's Register

1.44 FD CG

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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 plans are being retained for reference in dealing with sister-vessels under construction.

4 copy of completion certificate, interim certificate, and certificate of test for steering gear chains enclosed herewith.

This vessel is a sister ship to the same Builders "EMPIRE MAISIE - Hull report No 52106.

PARTICULARS OF ELECTRIC WELDING (if employed)

habin flat forward and aft electrically welded.  
Tank top in way of reserve feed tank + fresh water tank welded to shell.  
Stemplate rudder electrically welded.  
All welding carried out in accordance with the approved plan.  
Approved electrodes used.

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

100 A1.

"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

3-3-20 incl. cup + pins  
3-3-7 " " "

A.E.G.  
A.E.G.

9329.  
9364.

8.11.43.  
15.11.43.

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. 169354

Signal Letters

Extreme Breadth over Belting (Circ. 1611)

26'8"

Over-all Length (Circ. 1703)

113'4"

No. and Material of Decks 1 DK (STL)

Parts of Bottom of Vessel coated with cement or approved composition and fresh water tank.

Yone & after peak tanks, E. & B. spaces, boiler feed tank

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.)

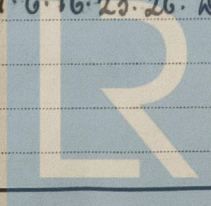
Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	9'0"	18
Double bottom, under Engines and Boilers,			After peak tank,	15'3"	23
Double bottom, if under Engines only,			Deep tank, aft, FRESH WATER TANK FORWARD	3'5"	6
Double bottom, if under Boilers only,			Deep tank, forward, RESERVE FEED TANK	19'7"	19
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. 3427

Date 10th October 1943

Dates of Surveys held while building

1943:- June 24. 28. July 1. 5. 8. 13. 19. 22. August 4. 9. 13. 19. 23. 26. Sept. 1. 2. 7. 17. 24. 28.  
Oct. 1. 4. 9. 11. 13. 21. 28. 29. Nov. 1. 6. 16. 23. 26. Dec. 1. 9. 13. 23.  
1944:- Jan. 6. 11. 13. 14. 20



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