

STEEL STEAMER or MOTORSHIP.

27 JAN 1942

Received at London Office

State if Report has been sent on the Freeboard of the Vessel *No*State if Report is sent on the Machinery of the Vessel *Yes*Date of completion of report *23rd January 1942*Port of *Leith*No. *20601*Survey held at *Leith*Date First Survey *15-10-40*

Last Survey

19th January 1942

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

*STL TWIN SC MOTOR TUG**"M.S.C. NEPTUNE"*

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

State Type of Erections *None*TONNAGE under Tonnage Deck... *123.69*CLASS *100A-*

State if with freeboard as condition of Class

*No*Built at *Leith*

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*

FEET.

*86.0*Launched *7th Oct. 1941* Yard No. *319*Breadth (greatest moulded) *B**23.0*Builders *Messrs Henry Robb Ltd.*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D**11.5*Owners *Manchester Ship Canal Co.*Gross Tonnage *130.77*Register Tonnage *46.87 non towing*1st Longitudinal Number (L x D) = *989*

Managers

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

2nd Numeral L x (B + D) = *2967*Framing Depth "d," at middle of length. See Sec. 3 (1d) *10.27*Proportions—Depth to Length—Uppermost continuous deck to top of keel *7.47*Do. Long Bridge to top of keel *8'-2 1/2"*Residence *Ship Canal House - King St Manchester*Port of Registry *Manchester*If surveyed while building, afloat, or in dry dock *Yes*

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	<i>2 1/2</i>	<i>✓</i>	Bracket Floors, Frame		
" " from 1/2 length amidships to Collision bulkhead	<i>2 1/2</i>	<i>✓</i>	" " Reversed Frame		
" " in peaks	<i>2 1/2</i>	<i>✓</i>	" " Vertical Struts		
SIDE FRAMING.			Centre Girder, depth and thickness amidships		
Frame Amidships, Angle, <i>E or F</i> in Eng. Space <i>5</i> <i>3</i> <i>40</i>	<i>5</i>	<i>3</i>	" " top Angles		
" " Clear of Eng. Space <i>5</i> <i>3</i> <i>34</i>	<i>5</i>	<i>3</i>	" " bottom Angles		
" " Extends up to Deck			Side Girders, No. each side and thickness		
Reversed Frame Amidships, Angle	<i>✓</i>		Margin Plate depth (excl. of flange) and thickness		
" " Extends up to	<i>✓</i>		" " Vertical Angle to Tank side		
Depth of Framing Girder	<i>✓</i>		" " Bracket abaft 1/2 len. from stem		
Frames in Uppermost Continuous 'tween Decks, Angle, <i>E</i> or <i>F</i>			" " Vertical Angle to Tank side		
" " Second 'tween Decks, Angle, <i>E</i> or <i>F</i>			" " Bracket from forward 1/2 len. from stem to Panting Area		
" " Third " " " "			" " Gussets, spacing and scantling abaft 1/2 len. from stem		
" " from 1/2 len. for'd. to 15% len. from Stem	<i>5</i>	<i>3</i>	" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area		
" " in Peaks, Angle or <i>E</i>	<i>5</i>	<i>3</i>	Tank Side Brackets, height above base line at toe of Frame and thickness		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>3/4</i>	<i>7 diams</i>	INNER BOTTOM PLATING.		
State if Frame Joggled	<i>Yes</i>	<i>✓</i>	Breadth and thickness of Middle Line Strake		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?			Thickness of remainder in Holds		
Are the scantlings and arrangements in way of the Bottom Forward 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?		
SINGLE BOTTOM. <i>at ends clear of Eng. Space</i>			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	<i>16 x 34</i>	<i>✓</i>	Uppermost Continuous Deck, amidships in Wells, Angle, <i>E</i> or <i>F</i>	<i>6</i>	<i>3</i>
Height of Brackets at side above base line at toe of frame	<i>No brackets</i>	<i>✓</i>	" " Half beams " in way of Bridge, Angle, <i>E</i> or <i>F</i>	<i>4</i>	<i>3</i>
Middle Line Keelson, on Floors, Angle, <i>E</i> or <i>F</i> only	<i>9 x 3 x 3 x 40</i>	<i>✓</i>	" " Spacing		<i>Every frame</i>
" " Through Plate or Intercoastal Plate	<i>None</i>	<i>✓</i>	Second Deck, amidships, Angle, <i>E</i> or <i>F</i>		
" " Foundation Plate on Floors	<i>None</i>	<i>✓</i>	" " Spacing		
" " Flat Plate Keel Angles	<i>Bar keel</i>	<i>✓</i>	Third Deck, amidships, Angle, <i>E</i> or <i>F</i>		
Side Keelsons, No. each side	<i>None</i>	<i>✓</i>	" " Spacing		
" " thickness of Intercoastal Plate	<i>None</i>	<i>✓</i>	Fourth Deck, amidships, Angle, <i>E</i> or <i>F</i>		
" " Angles	<i>None</i>	<i>✓</i>	" " Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, <i>E</i> or <i>F</i>		
Solid Floors, thickness and spacing			" " Spacing		
" " Are Frame and Reversed Frame joggled?			Bridge Deck, Angle, <i>E</i> or <i>F</i>		
Bracket Floors, breadth and thickness at middle line			" " Spacing		
" " breadth and thickness at margin plate			Forecastle Deck, Angle, <i>E</i> or <i>F</i>		
			" " 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.....			Stringer Plate, breadth and thickness in way of Bridge		
„ in 'tween Decks, Size and Spacing.....			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		
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....			Stringer Plate, breadth and thickness.....		
Plating, thickness of			If Plated, state thickness.....		
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells	66" x .32	✓	If Plated, state thickness		
„ „ „ „ in way of Bridge			Poop Deck.		
„ Angle in Wells	3 3 .32	✓	Stringer Plate, breadth and thickness		
Thickness of Plating abreast Deck openings in way of Wells32	✓	Plating, Sheathing, material and thickness ..		
Thickness of Plating abreast Deck openings in way of Bridge	✓		Bridge Deck.		
Thickness of Plating within line of openings...	✓		Stringer Plate, breadth and thickness.....		
If Sheathed, material and thickness	2 1/4 keel in way of access only	✓	Plating, Sheathing, material and thickness ..		
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	✓		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.		State if jogged?	RIVETS.	No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.					SINGLE OR DOUBLE.	Diam.		Spacing cr. to cr.
	Inches.	Inches.	Inches.	Inches.								
FLAT PLATE KEEL		Bar keel			✓							
„ DBLG. (if any)		✓										
BOTTOM PLATING, No. of Strakes ...2.....	A 32"	.375	.375	.375	✓	Double	3/4	3	Two	3/4	2 5/8	Strapped
BILGE PLATING, No. of Strakes2.....	B 65	"	"	"		"	"	"	"	"	"	Lapped
SIDE PLATING, No. of Strakes	C 56	"	"	"		"	"	"	"	"	"	"
UPPER DECK, Sheer-strake in Wells.....	D 60 1/2	"	"	"	✓	"	"	"	"	"	"	"
UPPER DECK, Sheer-strake in Bridge ...	Combined with bilge & sheerstrake					"	"	"	"	"	"	Strapped
STRAKE BELOW Sheer-strake in Wells.....	E 60 1/2	.40	.40	.40	✓	"	"	"	"	"	"	Strapped
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)	4
„ Deck next below	✓
As per Rule	4 approved ✓

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar		Roller steel bar	7" x 1"	✓
STEM		"	7 x 1 1/4	✓ (Approved 7 x 1 1/8)
STERN FRAME { Propeller Post	✓	✓	F.S. 5 1/2 x 1 1/8	✓ J.S. Forster & Sons
{ Rudder „	F.S. ✓	5 1/2 x 1 1/8		✓
Speed of Vessel			9 1/2 knots	✓
RUDDER—Type			F.S. Ordinary	✓ J.S. Forster & Sons
„ A x D			42.4	✓
„ Diam. of head			4 1/4	✓
„ Mainpiece at top pintle			4 1/4	✓
„ „ heel ...			3 1/4	✓
„ how constructed			Single plate and 3 arms	✓
„ double or single plate			Single .80	✓
„ coupling, vertical or horizontal			Horizontal	✓

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper 'tween decks					
„ „ Second	4 x 10	.32 x .50	5 x 3 x .30	24"	✓
„ „ Third	4 x 15	.30 x .34	"	30"	✓
„ „ Holds	4 x 33	.30 x .32	"	30"	✓
„ „	4 x 39	.32	"	24"	✓
COLLISION „ (in Hold)	4 x 42	.30	4 x 2 1/2 x .30	"	✓
AFTER PEAK „	4 x 5	.30	5 x 3 x .30	30"	✓

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	Open Heaton /
	The Steel Co. of Scotland. Lanarkshire Steel Co. Colvilles 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.)

This vessel is a duplicate of the same Builders No 294, "M.S.C. MALLARD", Linn Rpt No 20027, and No 295, "M.S.C. MERLIN", Linn Rpt No 20073.

List of approved plans forwarded with this report.

Midship Section

Profile, decks and bulkheads.

Stemframe and Rudder.

Pumping Plan

Propeller brackets and spars.

Engine Seating.

Leads of steering gear.

Bossing.

Engine Casings.

Forging Reports. (3)

Midship Section as built.

PARTICULARS OF ELECTRIC WELDING (if employed) welded.

Cabin flat welded to shell and sundry fittings.

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

For River & Harbour Towing Service. Oil Engines / pt Asps.

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. Signal Letters Extreme Breadth over Belting 24.33 Over-all Length 92.0
(Circ. 1611) (Circ. 1703)

No. and Material of Decks 1 Pl (50)

Parts of Bottom of Vessel coated with cement or approved composition Bottom coated with Bitumastic Enamel, Peaks coated with "Asperin" — No coating in O.F. tank under engines.

Particulars of composition (if fitted) and of approval "Bitulac"

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,	15.04	12.5
Double bottom, under Engines and Boilers,	✓		After peak tank, (adjacent after peak)	8.96	6.5
Double bottom, if under Engines only,	30.46	22.7	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. 2040

Date 13.9.40

Dates of Surveys held while building

1940 Oct 15, 22, 28. Nov 4, 12, 19, 29. Dec 11, 17, 23. 1941 Jan 9, 14, 17, 22, 29.
Feb 4, 11, 18, 26, 28. Mar 7. April 4, 30. Jun 11. Aug 13, 14. Sept 11, 23, Oct 7.
Nov 12. Dec 11. 1942 Jan 2, 19.

Total No. of Visits 33