

## STEEL STEAMER OR MOTORSHIP.

23/63

Received at London Office

11 FEB 1953

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 22<sup>nd</sup> January 1953.Port of Leith.

No.

Survey held at Leith.Date First Survey 30<sup>th</sup> April 1951.Last Survey January 12<sup>th</sup> 1953

1953

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

Twin Screw motor tug "M.S.C. Ranger"

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

State Type of Erections NONE.TONNAGE under Tonnage Deck 137.05CLASS 100 A.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) 88.0Launched 4<sup>th</sup> November 1952 Yard No. 415.Total 137.05Breadth (greatest moulded) B 24.0Builders Henry Robb. LtdGross Tonnage 154.18Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 12.0Owners Manchester Ship Canal CoReg ster Tonnage N/A.1st Longitudinal Number (L x D) ✓Managers ✓  
(Where necessary to be entered in Reg. Book)Non-Towing. 42.48.2nd Numeral L x (B + D) 3168Residence Ship Canal House, King St.

REGISTERED DIMENSIONS.

FEET

Length 88.4'Breadth 24.2'Depth 9.0'Framing Depth "d," at middle of length. See Sec. 3 (1d) ✓Proportions—Depth to Length—Uppermost continuous deck to top of keel 7.33.Do. Long Bridge to top of keel ✓Draught Moulded ✓Port of Registry Manchester.If surveyed while building, afloat, or in dry dockYes. Undocked: 13<sup>th</sup> Jan'y 1953.

## 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.....	21½	✓	Bracket Floors, Frame .....	✓	
"    "    from ½ length amidships to Collision bulkhead.....	21½	✓	"    "    Reversed Frame.....	✓	
"    "    in peaks .....	21½	✓	"    "    Vertical Struts .....	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	✓	
Frame Amidships, Angle, <u>E or F</u> .....	5 3 40	✓	"    "    top Angles .....	✓	
"    "    Extends up to.....	Upper Deck	✓	"    "    bottom Angles.....	✓	
Reversed Frame Amidships, Angle .....	✓		Side Girders, No. each side and thickness.....	2 @ .50.	
"    "    Extends up to .....	✓		Margin Plate depth (excl. of flange) and thickness .....	.50.	
Depth of Framing Girder.....	5"	✓	"    "    Vertical Angle to Tank side	✓	
at 16, 21, 26 + 30 FRAMES.			"    "    Bracket abaft ½ len. from stem .....	✓	
WEB Frames in Uppermost Continuous between Decks, Angle, <u>E or F</u> .....	6 3 40 0A	✓	"    "    Vertical Angle to Tank side	✓	
"    "    Second 'tween Decks, Angle, <u>E or F</u> .....	5 3 40 8A	✓	"    "    Bracket from forward ½ len. from stem to Panting Area	✓	
"    "    Third .....	✓		"    "    Gussets, spacing and scantling abaft ½ len. from stem.....	✓	
"    "    from ½ len. for'd. to 15% len. from Stem .....	5 3 34 8A	✓	"    "    Gussets, spacing and scantling from forward ½ len. from stem to Panting Area .....	✓	
"    "    in Peaks, Angle or <u>E or F</u> .....	5 3 34	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships .....	¾ @ 5¼	✓	INNER BOTTOM PLATING. in Engine Room		
State if Frame Joggled.....	yes	✓	Breadth and thickness of Middle Line Strake.....	63½ x .40	✓
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.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds.....	16" x .36 (.30 in 8' Peak)	✓	Uppermost Continuous Deck, amidships <u>F or SLE.</u>	5 3 .32	✓
Height of Brackets at side above base line at toe of frame.....	✓		"    "    Wells, Angle, <u>E or F</u> .....	6 3 .30-36	✓
Middle Line Keelson, on Floors, Angle, <u>E or F</u> .....	9 x 3½ x 3½ x 7/8 channel	✓	"    "    in way of Bridge, Angle, <u>E or F</u> .....	4 3 .32	✓
"    "    Through Plate or Inter-costal Plate .....	✓		"    "    Spacing .....	21½"	✓
"    "    Foundation Plate on Floors .....	✓		Second Deck, amidships, Angle, <u>E or F</u> .....	✓	
"    "    Flat Plate Keel Angles .....	✓		Spacing .....	✓	
Side Keelsons, No. each side.....	✓		Third Deck, amidships, Angle, <u>E or F</u> .....	✓	
"    "    thickness of Inter-costal Plate.....	✓		Spacing.....	✓	
"    "    Angles .....	✓		Fourth Deck, amidships, Angle, <u>E or F</u> .....	✓	
DOUBLE BOTTOM. in Engine Space.			Spacing.....	✓	
Solid Floors, thickness and spacing.....	34 x 29-33 40 channel	✓	Poop Deck, Angle, <u>E or F</u> .....	✓	
"    "    are Frame and Reversed Frame joggled? .....	yes	✓	Spacing.....	✓	
Bracket Floors, breadth and thickness at middle line .....	✓		Bridge Deck, Angle, <u>E or F</u> .....	✓	
"    "    breadth and thickness at margin plate.....	✓		Spacing.....	✓	
			Forecastle Deck, Angle, <u>E or F</u> .....	✓	
			Spacing.....	✓	



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## 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 .....		as approved. ✓							
"	in 'tween Decks, Size and Spacing .....	✓							
"	" " " " " " .....	✓							
"	in Holds " " " " " " .....	✓							
"	" " " " " " " " .....	✓							
Centre Line Bulkhead.		✓							
Stiffeners and Spacing .....		✓							
Plating, thickness of .....		✓							
STRINGERS AND DECKS.									
Uppermost Continuous Deck.									
Stringer Plate, breadth and thickness in Wells		69	x	32	✓				
"	" " " " in way of Bridge	✓							
"	Angle in Wells .....	3	3	30	✓				
Thickness of Plating abreast Deck openings } in way of Wells .....		32			✓				
Thickness of Plating abreast Deck openings } in way of Bridge.....		✓							
Thickness of Plating within line of openings...		32			✓				
If Sheathed, material and thickness.....		5x2 1/2 O.P. over accom ? ✓							
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.

SCANTLINGS.					RIVETING.									
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.					
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled?	No.	SINGLE OR DOUBLE.	RIVETS.		No. of ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.					Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.				Inches.	Inches.		Inches.	Inches.		
Flat Plate Keel.....	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	
Garboard. A	32 1/2	3/8	3/8	3/8			D.R.	3/4	3	✓	TWO.	3/4	2 5/8	STRAPPED CLEAR OF O.R.D.B. WELDED BUTTS IN AF TANKS. OVERLAPS. OVERLAPS.
Bottom Plating, No. of Strakes ..... 2	63	3/8	3/8 X	3/8			D.R.	3/4	3	✓	TWO	3/4	2 5/8	
Bilge Plating, No. of Strakes ..... 1	63	3/8	3/8	3/8 X	X increased locally		D.R.	3/4	3	✓	TWO	3/4	2 5/8	
Side Plating, No. of Strakes SHEER.....	66	40	40	40	to .50 at bossing and fourfoot.		D.R.	3/4	3	✓	TWO.	3/4	2 5/8	STRAPPED.
Upper Deck, Sheer- strake in Wells.....			✓				✓			✓	✓			
Upper Deck, Sheer- strake in Bridge ...			✓				✓			✓	✓			
Strake below Sheer- strake in Wells.....			✓				✓			✓	✓			
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— **THREE.**

Extending to Upper Deck (Sec. 3 c).....

„ Deck next below.....

As per Rule..... **THREE.**

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	}	Roll'd	7x18	✓
STEM		Steel Bar.	7x18	✓
STERN FRAME	{	Back's fells by Bosses forged by H. Robt. Co. Ltd. 7 1/2 ton forge Co. Ltd.		
		Propeller Post	5 dia. mild steel bar with 6x1 1/2 flat welded on fore side.	✓
	Rudder			✓
Speed of Vessel		11 1/2 knots.		
RUDDER—Type		Ordinary.		✓
A x D.		63.75		✓
UPPER STOCK.		FORGING. 4 3/4 DIA.	J. P.	✓
Diam. of head		5 1/4	Forster	✓
Mainpiece at top pintle		4 3/4	Bar. Co.	✓
heel		3 1/2	Lundeland.	✓
how constructed		Riveted.		✓
double or single plate coupling, vertical or horizontal		Single Horizontal.		✓
		6 bolts 1 3/8 dia. fitted		✓

## STIFFENERS.

				STIFFENERS.				
				VERTICAL. Plating Thickness.	VERTICAL.		HORIZONTAL.	
					Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper <del>between decks</del>								
"	"	<del>Second</del>	"					
"	"	<del>Third</del>	"					
"	"	Holds <i>3/4</i>	"	<i>30</i>	<i>4x3x5 1/2</i>	<i>28</i>	<i>-</i>	<i>-</i>
COLLISION				<i>30</i>	<i>9 1/4 A.</i>			
"	"	(in Hold) <i>3/4-43</i>	"	<i>30</i>	<i>4x3 1/2 x 30</i>	<i>24</i>		
AFTER PEAK				<i>30</i>	<i>4x2 1/2 x 30</i>	<i>21/24</i>		
"	"	<i>3/4-9</i>	"		<i>9 1/4 A.</i>			

## STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open the*  
*South Durham Steel & Iron Co., Dorman Long & Co. Ltd., Appleby Frodingham,*  
*Leemingrove Iron & Steel Co. Ltd.*

Has the Steel been tested as required by the Rules?







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.)

Sister Ships:— M.S.C. Onset, M.S.C. Onward, M.S.C. Panther, M.S.C. Pama, M.S.C. Quarry, M.S.C. Quest.  
Deck Report Nos. 22087, 22116, 22478, 22580, 22957, + 23005.

The following plans and certificates are forwarded herewith; to be returned for following ship.

1. Midship Section.
2. Shell Expansion.
3. Aft End Framing.
4. Framing Profile.
5. Shaft Brackets.
6. Engine Seating & Double Bottom.
7. W.I. Bulkheads.
8. Rudder & Stemframe.
9. Deck Plan.
10. Method of attaching Shell Plates aft.
11. Pumping Plan.
12. Steering Gear Leads.
13. General Arrgt.
14. Midship Section (as fitted).
15. Framing Profile (as fitted).
16. Deck Plan (as fitted).

1. Ladder Head mainpiece.
2. Stem Bracket Boss forgings.

Certificates

As fitted

ON FITTED DO NOT RETURN THESE

PARTICULARS OF ELECTRIC WELDING (if employed) Garboard butts amidships, shaft bossing, part shell seams aft, double bottom floors to tank top, tank intercostals to tank top and shell, tank plating, engine girders to shell and tank top, auxiliary engine seats, fabricated stemframe and other items of minor structural importance.

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

100 A. River & Harbour Towing Services. Oil Engines, Part electrically welded, Bar keel.

RADAR Equipment (State if fitted) none fitted

State Type or Pattern No.

State } Maker  
Name } and/or  
of } Supplier

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

1st Bower

2nd "

3rd "

none approved

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. 184864

Signal Letters ✓

Extreme Breadth over Belting 25.4' (Circ. 1611)

Over-all Length 94.3' (Circ. 1703)

No. and Material of Decks

One Deck Steel

Parts of Bottom of Vessel coated with cement or approved composition Bottom fore and peaks.

Fore and after Peaks and spaces over, Deep Tank & Cofferdam, Engine Room below level of floor plating, all

Particulars of composition (if fitted) and of approval coated with Bituminous solution and enamel.

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,	15.25	13.1.
Double bottom, under Engines and Boilers,	✓		After peak tank,	12.5	10.0.
Double bottom, if under Engines only, OIL FUEL.	35.83		Deep tank, aft,	✓	
Double bottom, if under Boilers only,	✓		Deep tank, forward,	7.17	11.8
Double bottom, forward,	✓		Other tanks, if fitted, C.D. for 24-36	3.59	6.0.
Total length (if continuous) and Capacity	35.83.		(If necessary furnish further information by sketch.)		

O.F. capacity C.R.D.B. - 31.0 Tons.

Order for Special Survey No.

2160.

Date 16.6.50.

Dates of Surveys held while building

1951. April 30<sup>th</sup>. 1952. Feb. 5, 20, March 4, 20, 26, April 11, 22, 25, May 15, 23, 28, 30.  
June, 13, 18, 20, 24, 26, 27, July, 2, 4, Aug. 1, Nov. 4. 1953. Jan. 7, 12.

Total No. of Visits 25.