Rpt. 1.

STEEL STEAMER ~~or MOTORSHIP.~~

Received at London Office JUN 27 1938

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 25th June 1938. Port of Leith No. 19612

Survey held at Leith Date First Survey 29th September 1937 Last Survey 16th June 1938

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Single Screw Tug. "M.S.C. ARCHER"

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

State Type of Erections none

TONNAGE under Tonnage Deck 141·85

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

Total 141·85

Gross Tonnage 144·22

Register Tonnage NIL

REGISTERED DIMENSIONS.

	FEET.
Length	85·05
Breadth	23·1
Depth	11·25

CLASS + 100 A — "FOR TOWING SERVICES"

State if with freeboard as condition of Class no

		FEET.
Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)	L	86·0 ✓
Breadth (greatest moulded)	B	23·0 ✓
Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)	D	12·0 ✓
1st Longitudinal Number (L × D)	=	1032 ✓
2nd Numeral L × (B + D)	=	3010 ✓
Framing Depth "d," at middle of length. See Sec. 3 (1d)		10·67 ✓
Proportions—Depth to Length—Uppermost continuous deck to top of keel		7·17 ✓
Do. Long Bridge to top of keel		–
Draught Moulded (As ~~supplied by builders~~)		9'-11" ✓

Built at Leith

Launched 29th April 1938 Yard No. 265

Builders Henry Robb Ltd.

Owners Manchester Ship Canal Co.

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

Residence Ship Canal House, King St. Manchester

Port of Registry Manchester

If surveyed while building, afloat, or in dry dock While building. (finally afloat in dry dock)

FRAMES, DOUBLE BOTTOM AND BEAMS.

	Inches in Ship.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	21½	✓
" " from ⅜ length amidships to Collision bulkhead	21½	✓
" " in peaks	21½	✓
SIDE FRAMING.		
Frame Amidships, ~~Angle, E~~ or [	5 3 ·40	✓
" " Extends up to	deck	✓
Reversed Frame Amidships, Angle	none	✓
" " Extends up to	–	
Depth of Framing Girder	5	✓
Frames in Uppermost Continuous 'tween Decks, Angle, [or [		
" " **Second 'tween Decks,** Angle, [or [		
" " **Third** " " " "		
" **from ½ len. for'd. to 15% len. from Stem**	5 3 ·34 [	✓
" **in Peaks,** ~~Angle or~~ [	5 3 ·34	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	¾ 7diars	apt c. to c. ✓
State if Frame Joggled	yes	✓
Are the scantlings and arrangements in the **Panting Area** in accordance with the Rules and/or as approved?		
Are the scantlings and arrangements in way of the **Bottom Forward** in accordance with the Rules and/or as approved?		
SINGLE BOTTOM.		
Floors, Depth and thickness at mid-line in Holds	16 ·34	✓
Height of Brackets at side above base line at toe of frame	·40 in 8·5 / none	✓ ✓
Middle Line Keelson, on Floors, ~~Angles,~~ [~~or [~~	9×3½×3½×·44	✓
" " " Through Plate or Intercostal Plate	none ·35	✓
" " " Foundation Plate on Floors	none	✓
" " " Flat Plate Keel Angles	–	
Side Keelsons, No. each side	one	✓
" " thickness of Intercostal Plate	none	✓
" " Angles (on floors)	6 3 ·50	✓
DOUBLE BOTTOM.		
Solid Floors, thickness and spacing		
" " Are Frame and Reversed Frame joggled?		
Bracket Floors, breadth and thickness at middle line		
" " breadth and thickness at margin plate		

	Inches in Ship.	Any Departure from Approved Plans to be Noted.
Bracket Floors, Frame		
" " Reversed Frame		
" " Vertical Struts		
Centre Girder, depth and thickness amidships		
" " top Angles		
" " bottom Angles		
Side Girders, No. each side and thickness		
Margin Plate depth (excl. of flange) and thickness		
" " Vertical Angle to Tank side Bracket abaft ¼ len. from stem		
" " Vertical Angle to Tank side Bracket from forward ¼ len. from stem to Panting Area		
" " Gussets, spacing and scantling abaft ¼ len. from stem		
" " Gussets, spacing and scantling from forward ¼ len. from stem to Panting Area		
Tank Side Brackets, height above base line at toe of Frame and thickness		
INNER BOTTOM PLATING.		
Breadth and thickness of Middle Line Strake		
Thickness of remainder in Holds		
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?		
BEAMS.		
Uppermost Continuous Deck, amidships ~~in Wells~~, Angle, ~~E or [~~	4 3 ·32 ½ beams	✓
" " in way of Bridge, Angle, [or [	(6 3 ·32 through beams)	✓
Spacing	every frame	✓
Second Deck, amidships, Angle, [or [		
Spacing		
Third Deck, amidships, Angle, [or [		
Spacing		
Fourth Deck, amidships, Angle, [or [		
Spacing		
Poop Deck, Angle, [or [		
Spacing		
Bridge Deck, Angle, [or [		
Spacing		
Forecastle Deck, Angle, [or [		
Spacing		

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PILLARS AND DECKS.

	Inches in Ship.			Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows				
„ 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~~ amidships	38		·32	✓
„ „ „ „ in way of Bridge	✓			
„ Angle ~~in Wells~~ amidships	3	3	·32	✓
Thickness of Plating abreast Deck openings in way of Wells	✓			
Thickness of Plating abreast ~~Deck openings in way of Bridge~~ engine casing			·32	✓
Thickness of Plating within line of openings	✓			
If Sheathed, material and thickness ..... not sheathed (2½" teak over accomodation)				✓
Second Deck. Stringer Plate, breadth and thickness in Wells	✓			

	Inches in Ship.			Any Departure from Approved Plans to be Noted.
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.

Strakes.	As in Vessel. Amidships. Breadth. (Inches.)	Amidships. Thickness. (Inches.)	Forward. Thickness. (Inches.)	Aft. Thickness. (Inches.)	Any Departure from Approved Plans to be Noted.
Flat Plate Keel	✓	including flange 7"			
„ Dblg. (if any)					
Bottom Plating, No. of Strakes ...12...	A 34	·375 ✓	·375 ✓	·375 ✓	✓
	B 54	" ✓	" ✓	" ✓	
Bilge Plating, No. of Strakes ...12...	C 54	" ✓	" ✓	" ✓	
	D 54	" ✓	" ✓	" ✓	
Side Plating, No. of Strakes ...7...	E 45	" ✓	" ✓	" ✓	
Upper Deck, Sheer-strake in Wells	F 44	·40 ✓	·40 ✓	·40 ✓	
Upper Deck, Sheer-strake in Bridge					
Strake below Sheer-strake in Wells					
Strake below Sheer-strake in Bridge					
Poop Side Plating					
Bridge Side Plating					
Forec'tle Side Plating					

RIVETING.

Strakes.	Edges. State if joggled? no. Single or Double.	Rivets. Diam. (Inches.)	Rivets. Spacing cr. to cr. (Inches.)	Butts. No. of Rows of Rivets.	Rivets. Diam. (Inches.)	Rivets. Spacing cr. to cr. (Inches.)	Strapped or Lapped.
Flat Plate Keel			✓				
„ Dblg. (if any)							
Bottom Plating, No. of Strakes ...12... A 34	double	3/4	3 ✓	Two ✓	3/4 ✓	2 5/8 ✓	Strapped
B 54	"	"	" ✓	" ✓	" ✓	" ✓	Lapped
Bilge Plating, No. of Strakes ...12... C 54	"	"	" ✓	" ✓	" ✓	" ✓	"
D 54	"	"	" ✓	" ✓	" ✓	" ✓	"
Side Plating, No. of Strakes ...7... E 45	"	"	" ✓	" ✓	" ✓	" ✓	"
Upper Deck, Sheer-strake in Wells F 44	"	"	" ✓	" ✓	" ✓	" ✓	Strapped
Upper Deck, Sheer-strake in Bridge							
Strake below Sheer-strake in Wells							
Strake below Sheer-strake in Bridge							
Poop Side Plating							
Bridge Side Plating							
Forec'tle Side Plating							

The plate over after stern tube, and all over shaft and in accordance with Rules.

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 ✓

	Plating Thickness.	Stiffeners. Vertical. Scantlings.	Stiffeners. Vertical. Spacing.	Stiffeners. Horizontal. Scantlings.	Stiffeners. Horizontal. Spacing.
MIDSHIP BULKH'D, Upper tween decks					
„ „ Second „					
„ Frame ~~Third~~ No. 11	·30	5×3×·30	30		
„ „ ~~Holds~~ No. 10	·32	— " —	30		
„ „ ~~Holds~~ No. 34	·32 ·30	— " —	·30 above flat		
COLLISION „ ~~(in Hold)~~ No. 42	·32 ·30	— " —	·34 ·24 below flat		
AFTER PEAK „ „ No. 4	·36	— " —			
„ „ No. 5	·50	— " —	·24		

Approved ·26 — approved 4×3½×·35 — App. 4×3½×·36 — App. 4×3½×·25 — App. 4×3½×·28

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	Rolled bar	7"×1⅛"	✓	
STEM	Rolled bar	7"×1⅛"	✓	
STERN FRAME Propeller Post	Forging	5½"×2½"	Emerson & Walker Ld. ✓	
Rudder „		5"×2½	✓	
Speed of Vessel		9½ knots	✓	
RUDDER—Type	Ordinary		✓	
„ A × D		62	✓	
„ Diam. of head		4½" diar (5" in way of arm)	✓	
„ Mainpiece at top pintle	Forging	4½"	by Emerson & Walker Ld.	
„ „ heel		3½"	✓	
„ how constructed	main piece, 4 arms shrunk on			✓
„ double or single plate	single		✓	
„ coupling, vertical or horizontal	horizontal			✓

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Consett Iron Co. Ld. — The Steel Company of Scotland Ld. — The Lanarkshire Steel Co. Ld. — Dorman Long & Co. Ld. — Charles Ld. — OH. ✓

Has the Steel been tested as required by the Rules? yes ✓

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EQUIPMENT No. ✓ LETTER ✓ ANCHORS.

Number of Certificate.	Anchors.	Weight, Ex. Stock. Cwts.	qrs.	lbs.	Weight of Stock. Cwts.	qrs.	lbs.	Test, per Certificate. Tons.	cwts.	qrs.	lbs.	Weight Required by Table 53. Cwts.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
	1st Bower ...														
	2nd „ ...														
	3rd „ ...														
	Collective weight.														
	Stream														

CHAIN CABLES. HAWSERS AND WARPS.

Number of Certificate.	Length and size supplied. Length. Fathoms.	Diam. Ins.	Test per Certificate. Statutory. Tons.	Breaking. Tons.	Weight of Chain Cable. Supplied. Cwts. qrs. lbs.	Per Rule. Cwts.	Length and Size per Table 53. Length. Fathoms.	Diam. Ins.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material	Length and Size supplied. Length. Fathoms.	Cir. Ins.	Breaking Test of Steel Wire. Tons.	Length and Size per Table 53. Length. Fathoms.	Cir. Ins.
												TOWLINE...					
												HAWSERS & WARPS		✓			
												„					
		Cir.						Cir.									
Iron Stream Chain or Steel Wire												„					

none required.

Steering Gear, Type (Power ~~or hand~~) Steam, by Donkin & Co. **Alternative Means of Steering** Hand tiller with tackle.

Steering Chains (Size and Test) 11/16" diar. 11¼ Tons ✓ **Windlass** none **Boats** none.

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

Cargo Hatchways.—(Upper Deck) **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 Fleury Robb Ltd pp A. Wilson

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* ✓ *(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo* ✓ *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 in general conformity with the Rules. ✓ The material and workmanship are good. The Fore & after Peak tanks, the Feed water tank, the decks and bulkheads have been tested in accordance with the Rule Requirements with satisfactory results. The steering gear and hand pumps have been seen in good working order.

The following plans are forwarded herewith:- Midship Section — Profile, Decks & Bulkheads — Engine Seating — Rudder & Stern Frame — Bumping Plan - Leads of Steering Gear also two reports on forgings.

The amount of Entry Fee ..... £ 2 : 0 : 0 | Fees applied for, 25/6/1938

Special Survey Fee.... £ 20 : 0 : 0 | Received by me, 30.6.1938

Travelling Expenses, if any £ ✓ : :

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

I am of opinion the Vessel should be Classed + 100 A — ✓ " FOR TOWING SERVICES "

State whether the Vessel has been built under Special Survey yes ✓

Signature Evan Edwards

Surveyor to Lloyd's Register of Shipping.

Certificate ~~to be sent to~~ Hull Lith Macty " " Glasgow | Date of issue 7/7/38

FRI 1 JUL 1938

Committee's Minute

Character assigned + 100 A — For Towing Services

O.L. + Lmb 6.38 O.G.

Ext. breadth

Mute 9x

The Surveyor is requested not to write on or below the Committee's Minutes.

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0060 2/2

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.*)

PARTICULARS OF ELECTRIC WELDING (*if employed*) The flat over after peak tank, and flat over feed water tank are electrically welded to shell plating — the material and workmanship are good and in accordance with the Rules. ✓

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

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. 137431 Signal Letters Extreme Breadth over Belting (Circ. 1611) 24·5' ✓ Over-all Length (Circ. 1703) 92·0' ✓

No. and Material of Decks one deck steel.

Parts of Bottom of Vessel coated with cement or approved composition Cement in Fresh Water & Feed water tanks.

Particulars of composition (if fitted) and of approval the bottom of vessel throughout bituminous solution & enamel (except F.W. & Feed W tanks). pl cem pl each

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,	9·75	8½ ✓
Double bottom, under Engines and Boilers,			After peak tank,	5·4	1 ✓
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, Feed Water Tank	3·6	8 ✓
Total length (if continuous) and Capacity			(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 265

Date 25/5/37

Dates of Surveys held while building

1937. September 29. — Octo. 11. 14. 27 — Nov 9. 18. 24 — Dec 6. 22.
1938. Jan 17. 27. — Feb 3. 16. 28. — Mar 10. 17. 28 — Apr 6. 8. 14. 22. 29 — May 5. 11. 26 June 1. 4. 13. 16

Total No. of Visits 29

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