

STEEL STEAMER or MOTORSHIP

Received at London Office

MAR 1933

State if Report has been sent on the Freeboard of the Vessel. YES

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

Date of completion of report

10th March 1933

Port of GREENOCK

No. 19522

Survey held at PORT GLASGOW

Date First Survey

3rd September 1932

Last Survey

9th March

1933

On the (State if Machinery fitted with or without Tonnage Opening)

TWIN SCREW SLUDGE CARRIER

MANCUNION

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

FULL SCANTLING

State Type of Erections

FLUSH DECK

WITH FORECASTLE

TONNAGE under Tonnage Deck..

1097.54

CLASS +100 AL

State if with freeboard as condition of Class

YES

Built at PORT GLASGOW

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 245.75

Breadth (greatest moulded)

B 38

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D 16.5

1st Longitudinal Number (L x D)

= 4055

2nd Numeral L x (B + D)

= 13393

Framing Depth "d" at middle of length. See Sec. 3 (1d)

6.96

Proportions—Depth to Length—Uppermost continuous deck to top of keel

14.89

Do. Long Bridge to top of keel

✓

Draught Moulded

12' 8"

Launched FEBY 25th 1933. Yard No. 305

Builders FERGUSON BROS (GLASGOW) LTD

Owners MANCHESTER CORPORATION

Managers ✓

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

Residence MANCHESTER

Port of Registry MANCHESTER

If surveyed while building, afloat, or in dry dock

BUILDING & AFLOAT

REGISTERED DIMENSIONS.

FEET.

Length

246.2

Breadth

38.15

Depth

15.5

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.
AMES, Spacing amidships	23		Bracket Floors, Frame		
" " from $\frac{3}{8}$ length to Collision bulkhead	23		" " Reversed Frame		
" " in peaks	23		" " Vertical Struts		
DE FRAMING.			Centre Girder, depth and thickness amidships		
Frame Amidships, Angle, [or]	5 3 34	5x3x32 OBS.	" " top Angles		
" " Extends up to	2 ND DECK		" " bottom Angles		
Reversed Frame Amidships, Angle	3 3 36		Side Girders, No. each side and thickness		
" " Extends up to	ACROSS FLOOR TOPS ONLY.		Margin Plate depth (excl. of flange) and thickness		
Depth of Framing Girder	5		" " Vertical Angle to Tank side		
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	5 3 34	5x3x32 OBS.	Bracket abaft $\frac{1}{4}$ len. from stem		
" " Second 'tween Decks, Angle, [or]	✓		" " Vertical Angle to Tank side		
" " Third " " " "	✓		Bracket forward $\frac{1}{4}$ len. from stem		
Framing in Peaks, Angle or [5 3 34	5x3x32 OBS.	" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	$\frac{3}{4}$ SPACED 7x5/2 DIAS.		" " Gussets, spacing and scantling forward $\frac{1}{4}$ len. from stem		
State if Frame Joggled	YES		Tank Side Brackets, height above base line at toe of Frame and thickness		
ANTING ARRANGEMENTS (Sec. 7), state system and particulars	AS APPROVED.		INNER BOTTOM PLATING.		
STRENGTHENING OF BOTTOM FORWARD. State Particulars	DOUBLE BARS TO SHELL. EXTRA KEELSON 2 STRAKES INCREASED. INCREASED RIVETING AS PER RULE & AS APPROVED.		Breadth and thickness of Middle Line Strake		
ANGLE BOTTOM.			Thickness of remainder in Holds		
Floors, Depth and thickness at mid-line in Holds	21 1/2 x 36		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?		
Height of Brackets at side above base line at toe of frame	43"		BEAMS.		
Middle Line Keelson, on Floors, Angles, [or]	4 1/2 3 1/2 44		Uppermost Continuous Deck, amidships	6 1/2 3 32	
" " Through Plate [or]	52		" " in Way of Bridge, Angle, [or]	✓	
" " Foundation Plate on Floors	12 x 52		Spacing	23"	
" " Flat Plate Keel Angles	3 1/2 3 1/2 48		FOR OF E & B SPACE.		
Side Keelsons, No. each side	2	TWO	Second Deck, amidships, Angle, [or]	5 3 36	
" " thickness of Intercoastal Plate	34		Spacing	23	
" " Angles BULB	8 3 1/2 42		Third Deck, amidships, Angle, [or]		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing			Fourth Deck, amidships, Angle, [or]		
" " Are Frame and Reversed Frame joggled?			Spacing		
Bracket Floors, breadth and thickness at middle line			Poop Deck, Angle, [or]		
" " breadth and thickness at margin plate			Spacing		
			Bridge Deck, Angle, [or]		
			Spacing		
			Forecastle Deck, Angle, [or]	5 3 32	5x3x30 OBS.
			Spacing	23	

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.....	TWO		Stringer Plate, breadth and thickness in way of Bridge		
„ in 'tween Decks, Size and Spacing.....	2 1/2" SOLID ALT FRAMES		Thickness of Plating abreast Deck openings in way of Wells	38-30	
„ „ „ „ „	IN FORECASTLE		Thickness of Plating abreast Deck openings in way of Bridge		
„ AIR SPACES BELOW SLUDGE TANKS	3" DIA ALT FRAMES.		Thickness of Plating within line of openings...		
„ in Holds „ „	15" x 40" WITH DOUBLE FACE BARS 3 x 3 x 40: 8 FRAMES APART.		If Sheathed, material and thickness	BITUMASTIC 1/2" THICK.	
WEB FRAMES IN SLUDGE TANKS & HOLDS			Third Deck.		
„ „ „ „ „			Stringer Plate, breadth and thickness.....		
Centre Line Bulkhead , IN WAY OF SLUDGE TANKS.			If Plated, state thickness.....		
Stiffeners and Spacing.....	5 x 3 x 30 ANG. SPACED 23"		Fourth Deck.		
Plating, thickness of	38-36		Stringer Plate, breadth and thickness.....		
STRINGERS AND DECKS.			If Plated, state thickness		
Uppermost Continuous Deck.			Poop Deck.		
Stringer Plate, breadth and thickness in Wells	45 x 56 x 34		Stringer Plate, breadth and thickness		
„ „ „ „ „ in way of Bridge			If Plated, state thickness		
„ Angle in Wells	6 6 x 56 6 x 5 x 56		Bridge Deck.		
Thickness of Plating abreast Deck openings in way of Wells	34-30		Stringer Plate, breadth and thickness.....		
Thickness of Plating abreast Deck openings in way of Bridge	56		Plating, Sheathing, material and thickness ...		
Thickness of Plating within line of openings...			Forecastle Deck.		
If Sheathed, material and thickness	NOT SHEATHED.		Stringer Plate, breadth and thickness.....	30	
Second Deck , FOR ^o OF E & B SPACE			Plating, Sheathing, material and thickness ...	26-2 1/2" R.P. SHEATHING.	
Stringer Plate, breadth and thickness in Wells	78 x 38-34				

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? <i>No</i>			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		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	42	54	52	50		DOUBLE	3/4	2 7/8	THREE	7/8	3 1/8	LAPPED
" <i>DECK (if any)</i>												
BOTTOM PLATING, No. of Strakes	THREE	44	2 @ 42 1 @ 38	38		"	3/4	"	THREE	3/4	2 5/8	"
BILGE PLATING, No. of Strakes	ONE	44	38	38		"	3/4	"	"	"	"	"
SIDE PLATING, No. of Strakes	ONE	44	38	38		"	3/4	"	"	"	"	"
UPPER DECK, Sheer-strake in Wells	45 1/2	58	38	38		"	3/4	"	"	7/8	3 1/8	STRAPPED
UPPER DECK, Sheer-strake in Bridge ...												
STRAKE BELOW SHEER-strake in Wells	50 1/2	52	38	38		"	3/4	"	"	7/8	3 1/8	LAPPED
STRAKE BELOW SHEER-strake in Bridge ...												
DECK SIDE PLATING												
BRIDGE SIDE PLATING ...												
FOREC'TLE SIDE PLATING			30			SINGLE	3/4	2 7/8	SINGLE	3/4	2 5/8	LAPPED

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—		FIVE	
Extending to Upper Deck (Sec. 3 c)		ONE	
,, Deck next below		ONE	
As per Rule		FOUR	

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks	30	5 1/2 x 3	38	25 1/2	
KEEL TO TWEEN DECKS	40	30	6 x 3	36	25 1/2
Third					
Holds					
COLLISION					
(in Hold)	40	30	5 1/2 x 3	42	24
AFTER PEAK	36	26	4 1/2 x 3	34	24
					30

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar		FLAT PLATE KEEL		
STEM		ROLLED $6\frac{3}{4} \times 1\frac{5}{8}$		
STERN FRAME { Propeller Post			EMERSON	
{ Rudder "	FORGING	$6\frac{1}{2} \times 2\frac{1}{2}$ G	WALKER	
RUDDER—A×D.....		159.3		
Speed of Vessel.....		12 KNOTS.		
RUDDER mainpiece at head ...	FORGING	$9\frac{1}{2} \times 3\frac{1}{4}$	EMERSON	
" " heel ...		$4\frac{1}{4} \times 3\frac{1}{4}$	WALKER.	
" " how constructed		FORGED	RUDDER STOCK	
" " double or single plate		DOUBLE PLATE	$6\frac{1}{4}$ " DIA.	
" " coupling, vertical or			30	
" " horizontal.....		NONE		

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) (OPEN HEARTH PROCESS)
COLVILLES, LANARSHIRE, CONSETT, SKINNINGROVE, DORMAN LONG, STEWART & LLOYDS, SCOTTISH S&I CO, BRITISH I & S CO, STEEL CO OF SCOTLAND.

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

EQUIPMENT No. 14053										LETTER b	ANCHORS.		
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.		
92925	1st Bower	29	1	21	Stockless			28	5	0	0	HINGEXCHALLENGE TYPE	N. HINGLEY & SONS
92926	2nd "	29	2	0	"			28	5	0	0	"	"
92927	3rd "	29	0	21	"			28	1	1	0	"	"
	Collective weight.	87	0	14									
92931	Stream	7	3	7	2	0	0	10	0	1	7	ORD. FORGED W. I.	N. HINGLEY & SONS

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.	Statu-tory.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.	Length.					Cir.	Length.		Cir.		
	Fathoms.	Ins.	Tons.	Tons.	Cwts. qrs. lbs.	Cwts.	Fathoms.	Ins.						Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
	24½	1 11/16	47½	66½.	322.2.9.	319½.	240	1 11/16	STUB LINK		NETHERTON, H. GREEN	TOWLINE...					90	3¼	
	FOR FURTHER PARTICULARS SEE NEXT PAGE													HAWSERS & WARPS }	2@90	3		2@90	6"
													"	120	5"	MANILLA	2@90	5"	
													"	120	3"	---			
													"	120	2½	---			
Iron Stream Chain or Steel Wire }	SEE LONDON LETTER DATED JAN. 30 TH 1933.										75	3¾							
	FOR APPROVAL OF HAWSERS																		

Steering Gear, Steam By HASTIE'S GREENOCK. Steering Gear, Hand YES.

Boats 2 LIFEBOATS + 1 DINGHY. Steering Chains, Size and Test TELEMOTOR CONTROL. Windlass EMERSON, WALKER & THOMPSON.

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

Cargo Hatchways.—(Upper Deck) WATERTIGHT COVERS. Thickness of Hatches 8 CIRCULAR W. THATCHES TO SLUDGE TANKS 24" DIA WITH 9" B. A. COAM.

Size of No. 1 Hatchway (Forward) LOADING HATCH TO SLUDGE TANKS 12' x 10' x 30" COAM. FITTED WITH W. T. HINGED MANHOLES

Number of Shifting Beams and/or Fore and Afters TO AIRSPACES. LOADING HATCH TO TANKS FITTED ON TOP OF THIS HATCH 61' x 41' x 24" COAM CONNECTED WITH SLUCE VALVES TO SLUDGE TANKS.

Builder's Signature *Robert Ferguson* FERGUSON BROTHERS (PORT-GLASGOW), LTD. DIRECTOR

GENERAL DECLARATION. It should be stated (a) whether the vessel 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.

This vessel has been built in accordance with the approved plans and in general conformity with the Society's rules for the class contemplated.

The workmanship & materials are of good quality.

The sludge tanks, fore and after peak tanks & deep tank forward were tested in accordance with Rule requirements & found satisfactory.

The weather decks, watertight bulkheads clear of tanks, & chain locker were hose tested and found satisfactory.

The freeboards were verified & the marks cut in on the vessel's sides

Please note that the extreme breadth over the belting as now required for the Register book is 39'-6"

The amount of Entry Fee £ 5 : 0 : 0 Fees applied for, 10th MARCH 1933. *AMM*

Special Survey Fee.... £ 128 : 12 : 0 Received by me, 28.3.1933. *N*

FREE BOARD 10 : 0 : 0

Travelling Expenses, if any £ : : :

I am of opinion the Vessel should be Classed +100A1. WITH FREEBOARD CORRESPONDING TO AN EXTREME SUMMER DRAUGHT OF 12'-9" "SLUDGE VESSEL".

State whether the Vessel has been built under Special Survey. YES. Signature *Kenneth Inglis* R. W. M. K. R. Surveyor to Lloyd's Register of Shipping.

H.M. Certificate to be sent to GREENOCK OFFICE Date of issue 30/3/33

Committee's Minute GLASGOW 74 MAR 1933

Character assigned \div 100 A1 with freeboard 3.33. Sludge Vessel.

Lloyd's A.C.P.

+ L.M.C. 3.33.



© 2021

Lloyd's Register Foundation

W103-0228(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.)

Breadth of vessel over belting 39'-6"

List of plans—

Skull sections, Profile & dk plans & bulkheads, propellor brackets, rudder & stem frame, Engine seating, Modification to middle line bulkhead, connection of floors & beams to middle line bulkhead, Sheerstrake buttstraps, Intermediate frames in fore-castle, pumping arrangement, position of W.T doors in after hold, upper deck scuppers, sketch showing disposition & detail of air pipes, openings etc on freeboard deck, W.T doors in aft peak bulkhead.

Forging reports

Stem frame, rudder, propellor brackets & tiller.

Plans of midship section & profile & decks as built are also forwarded.

PARTICULARS OF CHAIN CABLE. NOT STATED ON OTHER SIDE.

No. of CERT	LENGTH FATHOMS	DIA. INCHES	WEIGHT CWT. QRS. LBS	MAKERS	DATE OF TEST.
98028	120 1/2	1 5/8	160.3.21	NHINGLEY & SONS	JAN 31 ST 1933
98031	15 1/2	1 5/8	20.2.0	" "	" "
98030	15 1/2	1 5/8	20.2.4	" "	" "
97617	15	1 5/8	20.0.20	NOT STATED	JAN 15 TH 1932
97618	15	1 5/8	20.0.0	" "	" 16 TH 1932
97619	15	1 5/8	20.0.21	" "	" 15 TH 1932
97620	15	1 5/8	20.0.23	" "	" "
97621	15	1 5/8	20.0.4	" "	" "
97622	15	1 5/8	20.0.0	" "	" "
TOTAL	24 1/2 FATHOMS		322.2.9		

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

1st Bower 14.3.13: K.H: 9384: 22.10.31.
2nd " 14.3.13: M.B: 9451: 27.11.31.
3rd " 14.2.21: M.B: 9450: 27.11.31.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Fore-castle 55' 5" ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 1 Dk (SEL), 2ND Dk (SEL) & WEB FRAMES FOR DECK SPACE.

Official No. 147,426 ; Signal Letters Is bottom of Vessel coated with cement YES IN 5TH & 13TH SPACE ONLY. if not give particulars of composition REMAINDER PAINTED. AT OWNERS REQUEST

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	13	33
Double bottom, under Engines and Boilers,			After peak tank,	23	38
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,	32.56	135
Double bottom, forward,			Other tanks, if fitted,		
Total capacity of double bottom			(If necessary, furnish further information by sketch.)		

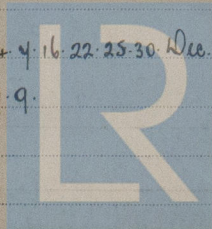
* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 3334

Date 18th August 1932

Dates of Surveys held while building

(1932) Sept. 5-6-8-9-13-14-20-21-23-26-30 Oct. 4-10-12-14-19-28 Nov. 1-4-16-22-23-30 Dec. 5-6-11-19-23-26-29-30.
(1933) Jan. 6-10-11-12-16-14-23-31 Feb. 9-13-16-25-28 Mar. 3-7-9.



Lloyd's Register
Foundation

Total No. of Visits 49