

RECEIVED

19 SEP 1949

IN D.O.

STEEL STEAMER OR MOTORSHIP.

75 SEP 1949

Received at London Office

State if Report has been sent on the Freeboard of the Vessel NOState if Report is sent on the Machinery of the Vessel YESDate of completion of report 10th SEPTEMBER 1949 Port of GREENOCK No. 23951Survey held at PORT GLASGOW Date First Survey 4th MARCH 1948 Last Survey 4th AUGUST 1949On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) STEEL TWIN SCREEN BUCKET DREDGER "MERSEY ENGINEER" MACHINERY AFTState Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) FULL SCANTLING State Type of Erections FORECASTLETONNAGE under Tonnage Deck ... 703.30

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

Total

Gross Tonnage 749.46Register Tonnage 287.26

REGISTERED DIMENSIONS.

FEET

Length 181.2Breadth 41.2Depth 12.3CLASS *100 A.I.State if with freeboard as condition of Class NOLength from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) 181.0Breadth (greatest moulded) 41.0Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) 13.01st Longitudinal Number (L x D) 23532nd Numeral L x (B + D) 9774Framing Depth "d," at middle of length. See Sec. 3 (1d) 11.33Proportions—Depth to Length—Uppermost continuous deck to top of keel 13.92Do. Long Bridge to top of keel —Draught Moulded —Built at PORT GLASGOWLaunched 9th JUNE 1949 Yard No. 388Builders FERGUSON BROS (PORT GLASGOW) LTDOwners MERSEY DOCKS & HARBOUR BOARDManagers —

(Where necessary to be entered in Reg. Book)

Residence LIVERPOOLPort of Registry LIVERPOOL

If surveyed while building, afloat, or in dry dock

BUILDING & AFLOAT

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.....	23 ✓		Bracket Floors, Frame		
" " from 1/2 length amidships to Collision bulkhead.....	23 ✓		" " Reversed Frame.....		
" " in peaks	23 ✓		" " Vertical Struts		
SIDE FRAMING.			Centre Girder, depth and thickness amidships		
Frame Amidships, Angle, E or F.....	6 3 .42 ✓		" " top Angles		
" " Extends up to.....	UPPER DECK ✓		" " bottom Angles.....		
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness.....		
" " Extends up to.....			Margin Plate depth (excl. of flange) and thickness		
Depth of Framing Girder.....	6 3 .42 ✓		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem		
Frames in Uppermost Continuous 'tween Decks, Angle, E or F.....			" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area		
" " Second 'tween Decks, Angle, E or F.....			" " Gussets, spacing and scantling abaft 1/4 len. from stem.....		
" " Third			" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area		
" " from 1/2 len. for'd. to 15% len. from Stem	6 3 .42 ✓		Tank Side Brackets, height above base line at toe of Frame and thickness		
" " in Peaks, Angle or F.....	6 3 .42 ✓		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4 - 7 0 1/2 ✓		Breadth and thickness of Middle Line Strake...		
State if Frame Joggled.....	YES ✓		Thickness of remainder in Holds		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	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?.....		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	AS APPROVED ✓		BEAMS.		
DOUBLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle, E or F.....	6 3 .40 ✓	
Floors, Depth and thickness at mid-line in Holds.....	18 * .40 ✓		" " in way of Bridge, Angle, E or F.....	—	
Height of Brackets at side above base line at toe of frame.....	3' 0 1/2" ✓		Spacing	EVERY FRAME	
Middle Line Keelson, on Floors, Angles, E or F.....	5 5 .50 ✓		CABIN SOLE Second Deck, amidships, Angle, E or F.....	5 3 .35 ✓	4 1/2 * 3 * .35 ✓
" " Through Plate or Inter-costal Plate45 ✓		Spacing	ALT. FRAMES.	
" " Foundation Plate on Floors45 ✓		Third Deck, amidships, Angle, E or F.....		
" " Flat Plate Keel Angles	5 3 1/2 .35 ✓		Spacing.....		
Side Keelsons, No. each side.....	240 ✓		Fourth Deck, amidships, Angle, E or F.....		
" " thickness of Intercoastal Plate.....	30" ✓		Spacing.....		
" " Angles	3 3 .30 ✓		Poop Deck, Angle, E or F.....		
" " SHELL	5 5 .55 ✓		Spacing.....		
DOUBLE BOTTOM.			Bridge Deck, Angle, E or F.....		
Solid Floors, thickness and spacing			Spacing.....		
" " Are Frame and Reversed Frame joggled?			Forecastle Deck, Angle, E or F.....	6 3 .40 ✓	
Bracket Floors, breadth and thickness at middle line			Spacing.....	EVERY FRAME.	
" " breadth and thickness at margin plate.....					

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									
" in 'tween Decks, Size and Spacing									
" " " " "									
" in Holds " " "									
" " " " "									
NELL SIDE Control Line Bulkhead. Stiffeners and Spacing	6	3	.36	EVERY FRAME					
Plating, thickness of35								
STRINGERS AND DECKS.									
Uppermost Continuous Deck.									
Stringer Plate, breadth and thickness in Wells	54	x	.40						
" " " " in way of Bridge	B.CASING 63	x	.48						
" Angle in Wells	4 1/2	4	.45						
Thickness of Plating abreast Deck openings } in way of Wells30								
Thickness of Plating abreast Deck openings } in way of Bridge									
Thickness of Plating within line of openings...	.30								
If Sheathed, material and thickness.....	2 1/2"	TUMASTIC OVER ACCOMM							
Second Deck.									
Stringer Plate, breadth and thickness in Wells									
Stringer Plate, breadth and thickness 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.....	.50	x	.30						
Plating, Sheathing, material and thickness...	.50								

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	TOP EDGES. State if joggled? <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.	
<i>CLEAR</i> Flat Plate Keel <i>OF WELL</i>	<i>44 1/2</i>	<i>.60</i>	<i>-</i>	<i>.60</i>	<i>.60 - .45</i> ✓	<i>DOUBLE</i> ✓	<i>7/8</i>	<i>3 3/4</i>		<i>WELDED.</i> ✓		
<i>CLEAR OF WELL A</i> <i>IN WAY OF WELL A</i>		<i>.60</i> ✓	<i>-</i>	<i>.37</i> ✓								
<i>Bulg.</i> (if any) <i>A</i>		<i>.40</i>	<i>.40</i>	<i>-</i>								
Bottom Plating, No. of Strakes	<i>B</i>	<i>.40</i> ✓	<i>.33</i>	<i>.37</i>	<i>.40 - .33</i>	<i>"</i> ✓	<i>3/4</i>	<i>2 7/8</i>	<i>DOUBLE</i> ✓	<i>3/4</i>	<i>3</i>	<i>LAPPED.</i>
Bilge Plating, No. of Strakes	<i>C</i>	<i>.45</i> ✓	<i>.33</i>	<i>.37</i>	<i>.45 - .33</i>	<i>"</i> ✓	<i>"</i>	<i>"</i>	<i>"</i> ✓	<i>"</i>	<i>"</i>	<i>"</i>
	<i>D</i>	<i>.40</i> ✓	<i>.33</i>	<i>.33</i>		<i>"</i> ✓	<i>"</i>	<i>"</i>	<i>"</i> ✓	<i>"</i>	<i>"</i>	<i>"</i>
	<i>E</i>	<i>.45</i> ✓	<i>.33</i>	<i>.33</i>		<i>"</i> ✓	<i>"</i>	<i>"</i>	<i>"</i> ✓	<i>"</i>	<i>"</i>	<i>"</i>
	<i>F</i>	<i>.40</i> ✓	<i>.33</i>	<i>.33</i>		<i>"</i> ✓	<i>"</i>	<i>"</i>	<i>"</i> ✓	<i>"</i>	<i>"</i>	<i>"</i>
Side Plating, No. of Strakes	<i>G</i>	<i>.40</i> ✓	<i>.33</i>	<i>.33</i>		<i>"</i> ✓	<i>"</i>	<i>"</i>	<i>"</i> ✓	<i>"</i>	<i>"</i>	<i>"</i>
Upper Deck, Sheer- strake in Wells	<i>J</i>	<i>46</i>	<i>.54</i>	<i>.33</i>	<i>.33</i>				<i>TREBLE</i> ✓	<i>7/8</i>	<i>3 1/2</i>	<i>STRAPPED.</i>
Upper Deck, Sheer- strake in Bridge												
Strake below Sheer- strake in Wells	<i>H</i>	<i>46</i>	<i>.45</i>	<i>.33</i>	<i>.33</i>	<i>DOUBLE</i> ✓	<i>7/8</i>	<i>3 3/4</i>	<i>TREBLE</i> ✓	<i>3/4</i>	<i>3</i>	<i>LAPPED.</i>
Strake below Sheer- strake in Bridge												
Poop Side Plating												
Bridge Side Plating												
Forecastle Side Plating			<i>.30</i> ✓			<i>SINGLE</i> ✓	<i>3/4</i>	<i>2 7/8</i>	<i>SINGLE</i> ✓	<i>3/4</i>	<i>3</i>	<i>LAPPED.</i> ✓

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel— **6**

Extending to Upper Deck (Sec. 3 c) **6** ✓

„ Deck next below.....

As per Rule **3.**

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar		FLAT PLATE		
STEM		11 3/4" x 48" TUBES.		
STERN FRAME {				
Propeller Post				
Rudder	FORGING.	7" x 3 3/8"	FORSTER & SONS	
Speed of Vessel		8 KNOTS.		
RUDDER—Type	FORGING.	SEMI-BALANCED.	FORSTER & SONS.	
" A x D		-		
" Diam. of head	FORGING	4 1/4"	FORSTER & SONS.	
" Mainpiece at top pintle		5 1/4"		
" " heel		5 1/4"		
" how constructed		BUILT.		
" double or single plate		78		
" 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) OPEN HEARTH.
DORMAN, LONG & CO LD. THE STEEL CO OF SCOTLAND, COLVILLES LD

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

Equipment letter "L" in red for fees

Signature from
Plans to
Noted.

EQUIPMENT No. 10169 ✓										LETTER		ANCHORS.			
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			AS APPROVED WEIGHT TESTED BY Tons. lbs.	Description of Anchor.	Makers.	Where and when tested, and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.				✓ Cwts.
67611	1st Bower	45	1	0	STOCKLESS			39	8	0	14	✓ 2-45	BRITANNIC ✓	SYKES & SONS	CRADLEY HEATH 3-6-49 H.P.
67612	2nd "	44	3	21	"			39	6	0	0	✓ 2-30	" ✓	"	" " "
67613	3rd "	30	1	0	"			28	16	1	0	✓	" ✓	"	" " "
67614	Collective weight	30	1	14	"			28	18	0	14	✓	" ✓	"	" " "
	Stream	150	3	7								150			

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.			AS APPROVED 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.	Fathoms.	Ins.
SEE	524 3/4	1 3/4	36 3/4	73 1/2	824-1-26	✓		500	1 3/4	OPEN LINK ✓	BLOOMER & SONS	CHESTER	TOWLINE	90	9	-	90	8 1/2	
PAGE 4	618 3/4	1 1/8	15 5/8	30 1/4	442-2-19	✓		600	1 1/8	SHORT LINK ✓	"	"	HAWSERS & WARPS }	90	6	-	90	6	
					1267-0-17								"	90	5	-	90	4	
		Cir.								Cir.			"						
Iron Stream Chain or Steel Wire																			

Steering Gear, Type (Power ~~on hand~~) BY DONKIN & SONS. Alternative Means of Steering BLOCKS & TACKLE LED TO NINCH.

Steering Chains (Size and Test) TELE MOTOR CONTROL. Windlass BY FERGUSON BROS. (P.G.) LTD. Boats 1-20'0" & 1-17'6"

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

Cargo Hatchways. (Upper Deck) FORMED OF STEEL PLATES & ANGLES. Thickness of Hatches 2 1/2" H.P.

Size of Hatchways No. 1 (Fwd.) 5'9" x 5'0" No. 2 — No. 3 — No. 4 — No. 5 — No. 6 —

Number of Shifting Beams
and/or Fore and Afters

Builder's Signature

FERGUSON BROTHERS (PORT-GLASGOW) LTD.

Peter Ferguson MANAGING DIRECTOR

AL 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 YES
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 & Regulations & the Secretary's letters. The scantlings & arrangements are in accordance with or equivalent to those shown in the approved plans. The materials & workmanship are of good quality.
After peak space, fuel tanks & oil fuel burners have been tested & found satisfactory.
The weather deck, w.t. bulkheads have been hose tested & found satisfactory.
Sigs suction, hand pump, steering gear, auxiliary steering gear & windlass tried & found efficient.
Tanks at fore end of boiler room & S. have been arranged to carry oil fuel F.P. above 150° F.
The requirements of Sec. 20 of the rules complied with.

Amount of Entry Fee..... £ : : Fees applied for,
Special Survey Fee..... £191: 0: 0. 10 SEPT 19 49.
Received by me,
Travelling Expenses, if any £ : : 19

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

I am of opinion the Vessel should be Classed + 100 A.1.

"BUCKET DREDGER"

State whether the Vessel has been built under Special Survey YES.

Signature *J. A. Jamison*
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to GREENOCK OFFICE.

Date of issue 21/12/49

Committee's Minute GLASGOW

14 SEP 1949

Character assigned -1- 100 A1

Bredger

Note:- *Bucket Dredger*

-1- Linc 8.49

Fitted for oil fuel 8.49 F.P. above 150° F.

The Surveyors are requested not to write on or below the Committee's Minutes.

Lloyd's Register Foundation

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.)

Plans of Midship Section, Profile & Decks as fitted, approved plans forming reports are forwarded herewith.

PARTICULARS OF CHAIN CABLES.						
No. of CERTIFICATES.	LENGTH	DIA.	HEIGHT.			WHERE & WHEN TESTED & SUPERINTENDENT.
			CWT.	QRS.	LBS.	
17148 - 17154	152 1/2	1 1/8"	109	2	5	CHESTER 20-1-48 S.B.
17317 - 17326	153 3/4		111	0	12	" 16-4-48 "
18664 - 18683	312 1/6		222	0	2	" 22-6-49 "
	618 1/3		442	2	19	
17208 - 17212	77 1/3	1 3/4	122	1	24	CHESTER 17-2-48 S.B.
17327 - 17336	156 1/2		244	1	8	" 19-4-48 "
17184 - 17188	78 1/3		118	1	27	" 28-1-48 "
17337 - 17345	136 1/3		218	0	7	" 23-4-48 "
17359 - 17363	75 5/6		121	0	16	" 26-4-48 "
	524 1/3		824	1	26	"

PARTICULARS OF ELECTRIC WELDING (if employed) KEEL BUTTS WELDED. OIL FUEL BUNKERS. & MINOR ITEMS THROUGHOUT.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book. + 100 A.I. BUCKET DREDGER.

LLOYDS R.A.C.P. MACHINERY AFT.

FITTED FOR OIL FUEL 8-49 F.P. ABOVE 150°F.

pt Asp, pt Cmr

"pt Elec welded"

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

1st Bower 27-3-4 : A.L.G. : 1816 : 21-10-48 ✓
2nd " 27-2-8 : J.H.J. : 8875 : 16-5-47 ✓
3rd " 18-1-16 : J.H.J. : 10257 : 15-10-48 ✓
4th " 18-1-24 : J.H.J. : 10202 : 1-10-48 ✓

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop — ft., R.Q.D. — ft., Bridge — ft., Forecastle 27.0 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. 183741

Signal Letters

Extreme Breadth over Belting 42.7.
(Circ. 1611)

Over-all Length 197.2 OVER BUCKETS.
(Circ. 1703)

No. and Material of Decks 1 DECK (STL)

Parts of Bottom of Vessel coated with cement or approved composition CEMENT IN PEAKS, FEED & P.W. TANKS. BITUMASTIC SOLUTION & ENAMEL ELSEWHERE. FIRE RESISTING PAINT APPLIED ON BITUMASTIC SOLUTION & ENAMEL IN BOILER ROOM.

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.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,			Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,		
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,		
Total length (if continuous) and Capacity			(If necessary furnish further information by sketch.)		

Order for Special Survey No. 3540

Date 22nd JUNE 1946

Dates of Surveys
held while building

(1948) MAR. 4. 10. 15. 25. 30. APRIL 1. 2. 6. 9. 19. 22. 26. 29. MAY 4. 10. 13. 19. 25. 28. JUNE 8. 14. 22. JULY 20. 26.
AUG. 5. 12. 15. 23. 26. 30. SEPT. 9. 16. 24. 30. OCT. 4. 13. 18. 26. NOV. 13. 16. 24. 29. DEC. 3. 9. 16. 24.
(1949) JAN. 11. 21. FEB. 10. 16. 22. MAR. 9. 15. APRIL 13. 28. MAY 9. 18. 31. JUNE 9. 22. 29. JULY 20.
AUG. 3. 4.

Total No. of Visits 66