

# NON-PROPELLING DREDGER STEEL STEAMER or MOTORSHIP.

Received at London Office

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 June, 1926.Port of GlasgowNo. 18567Survey held at Port GlasgowDate First Survey 18th November 1926 Last Survey 9th June 1926

On the (State if Machinery fitted Aft and

Non-propelling Barge Loading Bucket Dredger "GARSTONIA"

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

Full ScantlingState Type of Erections None.TONNAGE under Tonnage Deck 457.74CLASS \* 100 AL.  
"DREDGER"

State if with freeboard as condition of Class

No.

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 (1c)L 176

Breadth (greatest moulded)

B 33.50

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

D 10.501st Longitudinal Number (L x D) = 18482nd Numeral L x (B + D) = 7744

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

9.16

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

16.76

Do. Long Bridge to top of keel

Draught Moulded 7.9Launched 3rd June 1926 Yard No. 278Builders Ferguson Brothers (Port Glasgow) Ltd.Owners London, Midland & Scottish RailwayManagers  
(Where necessary to be entered in Reg. Book.)Residence Euston Station, London N.W.1.Port of Registry London

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.
<b>FRAMES, Spacing amidships</b>	<u>24</u>				<b>Bracket Floors, Frame</b>				
" " from $\frac{1}{2}$ length to Collision bulkhead	<u>24</u>				" " Reversed Frame				
" " in peaks	<u>24</u>				" " Vertical Struts				
<b>SIDE FRAMING.</b>					<b>Centre Girder, depth and thickness amidships</b>				
Frame Amidships, Angle, <u>E or F</u>	<u>4 1/2</u>	<u>3</u>	<u>30</u>		" " top Angles				
" " Extends up to	<u>DECK.</u>				" " bottom Angles				
Reversed Frame Amidships, Angle	<u>3</u>	<u>3</u>	<u>33</u>		<b>Side Girders, No. each side and thickness</b>				
" " Extends up to	<u>ACROSS FLOOR</u>				<b>Margin Plate depth (excl. of flange) and thickness</b>				
Depth of Framing Girder	<u>1 1/2</u>				" " Vertical Angle to Tank side				
Frames in Uppermost Continuous 'tween Decks, Angle, <u>E or F</u>					Bracket abaft $\frac{1}{2}$ len. from stem				
" " Second 'tween Decks, Angle, <u>E or F</u>					" " Vertical Angle to Tank side				
" " Third					Bracket forward $\frac{1}{2}$ len. from stem				
Framing in Peaks, Angle <u>E or F</u>	<u>4 1/2</u>	<u>3</u>	<u>30</u>		" " Gussets, spacing and scantling				
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<u>3/4</u>	<u>11</u>	<u>5 1/2</u>		abaft $\frac{1}{2}$ len. from stem				
State if Frame Joggled	<u>YES.</u>				" " Gussets, spacing and scantling				
<b>FRAMING ARRANGEMENTS (Sec. 7), state system and particulars</b>					forward $\frac{1}{2}$ len. from stem				
<b>STRENGTHENING OF BOTTOM FORWARD.</b> State Particulars					<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>				
<b>SINGLE BOTTOM.</b>					<b>INNER BOTTOM PLATING.</b>				
Floors, Depth and thickness at mid-line in Holds <u>WELL SIDES</u>	<u>16</u>	<u>33</u>	<u>15 x 33</u>		Breadth and thickness of Middle Line Strake				
Height of Brackets at side above base line at toe of frame	<u>32</u>				Thickness of remainder in Holds				
Middle Line Keelson, on Floors, Angles, <u>E or F</u>	<u>3 1/2</u>	<u>3 1/2</u>	<u>32</u>		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?	<u>YES</u>			
" " Through Plate <u>E or F</u>	<u>22</u>	<u>40</u>	<u>22 x 36</u>		<b>BEAMS.</b>				
" " Foundation Plate on Floors	<u>15</u>	<u>40</u>	<u>12 x 36</u>		Uppermost Continuous Deck, amidships	<u>5 1/2</u>	<u>3</u>	<u>30</u>	
" " Flat Plate Keel Angles	<u>3 1/2</u>	<u>3 1/2</u>	<u>38</u>		" " in Walls, Angle, <u>E or F</u>				
Side Keelsons, No. each side <u>WELL SIDES</u>	<u>TWO</u>				" " in way of Bridge, Angle, <u>E or F</u>				
" " thickness of Intercoastal Plate		<u>29</u>			Spacing	<u>EVERY FRAME.</u>			
" " Angles	<u>4 1/2</u>	<u>3</u>	<u>30</u>		<b>Second Deck, amidships, Angle, <u>E or F</u></b>	<u>4 1/2</u>	<u>3</u>	<u>30</u>	
<b>DOUBLE BOTTOM.</b>					Spacing	<u>ALTER FRAMES.</u>			
Solid Floors, thickness and spacing					<b>Third Deck, amidships, Angle, <u>E or F</u></b>				
" " Are Frame and Reversed Frame joggled?					Spacing				
Bracket Floors, breadth and thickness at middle line					<b>Fourth Deck, amidships, Angle, <u>E or F</u></b>				
" " breadth and thickness at margin plate					Spacing				
					<b>Poop Deck, Angle, <u>E or F</u></b>				
					Spacing				
					<b>Bridge Deck, Angle, <u>E or F</u></b>				
					Spacing				
					<b>Forecastle Deck, Angle, <u>E or F</u></b>				
					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.
<b>PILLARS, No. of Rows</b> .....		IN ARCH. SP.		/	Stringer Plate, breadth and thickness in way of Bridge .....				/
,, in 'tween Decks, Size and Spacing .....		BUNKER &		/	Thickness of Plating abreast Deck openings in way of Wells .....				/
,, .....		AFT PLANKS		/	Thickness of Plating abreast Deck openings in way of Bridge .....				/
,, in Holds .....		PER APPROVED		/	Thickness of Plating within line of openings..				/
,, .....		PLANS.		/	If Sheathed, material and thickness .....				/
<b>Centre Line Bulkhead.</b>					<b>Third Deck.</b>				
Stiffeners and Spacing .....					Stringer Plate, breadth and thickness .....				
Plating, thickness of .....					If Plated, state thickness .....				
<b>STRINGERS AND DECKS.</b>					<b>Fourth Deck.</b>				
<b>Uppermost Continuous Deck.</b>					Stringer Plate, breadth and thickness .....				
Stringer Plate, breadth and thickness in Wells .....		57	1 1/4	/	If Plated, state thickness .....				
,, in way of Bridge .....			CHEQ.	/	<b>Poop Deck.</b>				
,, Angle in Wells .....		3 1/2	3 1/2	/	Stringer Plate, breadth and thickness .....				
Thickness of Plating abreast Deck openings in way of Wells .....			CHEQ.	/	Plating, Sheathing, material and thickness ...				
Thickness of Plating abreast Deck openings in way of Bridge .....			1	/	<b>Bridge Deck.</b>				
Thickness of Plating within line of openings..			1	/	Stringer Plate, breadth and thickness .....				
If Sheathed, material and thickness P.R. ....		2 1/2	OVER ACCOMMODATION.	/	Plating, Sheathing, material and thickness ...				
<b>Second Deck. CABIN SOLE. W.A.</b>		1 1/2	T. & G.	/	<b>Forecastle Deck.</b>				
Stringer Plate, breadth and thickness in Wells .....			1	/	Stringer Plate, breadth and thickness .....				
					Plating, Sheathing, material and thickness ...				

## SHELL PLATING.

[illegible]

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—						FIVE.		Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
Extending to Upper Deck (Sec. 3 c).....						FIVE					
,, Deck next below .....						✓					
As per Rule.....						TWO.					
		Plating Thickness.	STIFFENERS.				STEERN FRAME { Propeller Post ..... Rudder ,, .....	RUDDER—A × D .....	Speed of Vessel .....	RUDDER mainpiece at head ... ,, ,, heel ... ,, how constructed ..... ,, double or single plate coupling, vertical or horizontal .....	
			VERTICAL.		HORIZONTAL.						
			Scantlings.	Spacing.	Scantlings.	Spacing.					
MIDSHIP BULKH'D,	Upper tween decks	✓	✓	✓	✓						
"	" Second "	✓	✓	✓	✓						
"	" Third "	✓	✓	✓	✓						
"	Holds .....	$\frac{32}{16}$	$\frac{5 \times 3}{2} = 7\frac{1}{2}$	27	✓						
COLLISION	(in Hold) .....	$\frac{33}{30}$	$\frac{5 \times 3}{2} = 7\frac{1}{2}$	27	✓						
AFTER PEAK	" " .....	$\frac{38}{30}$	$\frac{5 \times 3}{2} = 7\frac{1}{2}$	30	✓						
STEEL.		Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) <i>The Steel Company of Scotland, The Lancashire Steel Company Ltd., Cargo Fleet Iron Co., Consett Iron Company Ltd., The South Durham Steel &amp; Iron Co. Ltd.</i>									
		Has the Steel been tested as required by the Rules? <i>YES.</i>									



Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TANK OR APPROVED.	Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.				
29442	1st Bower ...	25	1	0	STOCKLESS	24	19	1	14	25		BYERS	NOT STATED	SUND. 6-5-26 BUTLER.		
29455	2nd STRAIN...	20	0	14	"	20	17	0	21	20		"	"	19-5-26 LIEBRECHT		
29427	3rd SIPE ...	12	0	7	"	13	19	2	21	12		"	"	1-5-26 BUTLER		
29428	Positive weight.	12	1	14	"	14	4	0	7	12		"	"	1-5-26 "		
29420	Stream .....	12	0	21	"	14	1	2	14	12		"	"	2-5-26 "		
29437	6 "	12	0	0	"	13	17	2	0	12		"	"	5-5-26 "		
CHAIN CABLES.															HAWSERS AND WARPS.	

Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.				Length and Size <del>per Invoice</del>		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material	Length and Size supplied.		Breaking Test of Steel Wire.	Length and Size <del>per Invoice</del>	
	Length.	Diam.	Statu- tory.	Break- ing.	Supplied.		Per Rule.		Length.	Diam.					Length.	Ins.		Length.	Ins.
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
					SEE PAGE 4 FOR CABLES.									TOWLINE ...					
														HAWSEERS & WARPS	90	6	MANILA	90	6
<del>Stream Chain</del> Steel Wire	75	Cir. 3/4		22					75	Cir. 3/4	G.S.W.			"					
														"					

~~Steering Gear, Steam~~~~Steering Gear, Hand~~

Boats 2412, 16 FEET.

### ~~Steering Chains, Size and Test~~

MOORING { 3 FOR<sup>2</sup>, 3 AFT, STEAM BY  
Windlass CLARKE CHAPMAN & CO.

~~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" WHITE PINE, SOLID.

Size of No. 1 Hatchway (Forward) over 6'6" ~~No. 2 size 6'6"~~ ~~No. 3~~ ~~No. 4~~ ~~No. 5~~ ~~No. 6~~

Number of **Shifting Beams** and/or **Fore** and **Afters** NONE

FERGUSON BROTHERS (PORT GLASGOW) LTD.

*Builder's Signature*

Robert Seymour

DIRECTOR

GENERAL DECLARATION *The vessel has been built in accordance with the approved plans, instructions, and printed Rules of this Society.*

The materials and workmanship are of good quality. The freeboard has been verified and the marks cut in on the vessel's sides.

The peaks, fuel tanks, watertight bulkheads, weather deck and hand pumps have been tested as required by the Rules and found satisfactory.

The amount of Entry Fee . . . . . £	3 : 0 : 0	} Fees applied for, <i>11th June, 1926</i>
Special Survey Fee . . . . . £	45 : 18 : 0	
<b>FREEBOARD.</b>	3 : 0 : 0	
Travelling Expenses, if any £	<u>          </u>	Received by me, <i>6. 8. 26</i>

I am of opinion the Vessel should be Classed *100 AL.*  
*"DREDGER"*

State whether the Vessel has been built under Special Survey YES

Signature \_\_\_\_\_

H. L. Swinton

*Surveyor to Lloyd's Register of Shipping.*

Full *Glasgow*  
Certificate to be sent to *Glasgow*

Date of issue 1/8/26

Committee's Minute - GLASGOW 15 JUN 1926

Character assigned *- 100 A1*

Dredger

626

Lloyd's Acct

+NB 626



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.)

## List of Plans:

Midship Section.

Profile & Deck Plan.

Pumping Arrangements.

Midship Section as Built.

Profile & D<sup>g</sup> plan as Built.

## CHAIN CABLES.

N <sup>o</sup> OF CERTIF.	LEN. & SIZE SUPPLIED.		TEST PER CERTIF.		WEIGHT OF CHAIN CABLE.		LEN. & SIZE APPROVED.		DESCRIP <sup>TH</sup>	MAKERS OF CABLES.	WHERE & WHEN TESTED & SUPERINTENDENT.
	LEN.	DIA.	STAT.	BRH.	SUPPLIED	APPROVED	LEN.	DIA.			
60663	150 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	22 <sup>5</sup> / <sub>8</sub>	45 <sup>1</sup> / <sub>4</sub>	152.0.19	310.0.0	300	1 <sup>3</sup> / <sub>8</sub>	SHORT LINK.	H. ALDOMEY & SONS.	TIPTON. 27.4.26. DRYSDALE.
60675	150 <sup>3</sup> / <sub>8</sub>	"	"	"	152.1.16				"	"	" 29.4.26 "
60492	150 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	18 <sup>3</sup> / <sub>4</sub>	37 <sup>1</sup> / <sub>2</sub>	128.1.11	257.2.0	300	1 <sup>1</sup> / <sub>4</sub>	"	"	" 13.4.26 "
60539	149 <sup>3</sup> / <sub>8</sub>	"	"	"	126.0.3				"	"	" 27.4.26 "
60621	150 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	15 <sup>5</sup> / <sub>8</sub>	30 <sup>1</sup> / <sub>4</sub>	104.3.5	276.2.11	400	1 <sup>3</sup> / <sub>8</sub>	"	"	" 27.4.26 "
60622	150 <sup>3</sup> / <sub>8</sub>	"	"	"	104.0.18				"	"	" 28.4.26 "
60677	100	"	"	"	68.2.21				"	"	" 28.4.26 "

Particulars of Drop Test of Cast Steel Anchors, viz. :— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1 <sup>st</sup>	WEIGHT OF HEAD	15.0.22,	SURV. IHS.	K.H.,	N <sup>o</sup> OF CERT.	3811,	DATE OF TEST	30.3.26.
	2 <sup>nd</sup>	"	11.1.12	"	M.B.	"	2747	"	27.4.26
	3 <sup>rd</sup>	"	6.3.25	"	K.H.	"	3814	"	30.3.26
	4 <sup>th</sup> Bower	"	6.3.16	"	K.H.	"	3685	"	30.7.25
	5 <sup>th</sup> —	"	6.3.16	"	K.H.	"	3605	"	31.8.25
	6 <sup>th</sup> —	"	6.3.25	"	M.B.	"	2577	"	17.7.25

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 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 DR. (SCL.)**

Official No. **148773.**; Signal Letters **Is bottom of Vessel coated with cement** **YES.** ☒ if not give

particulars of composition

## PARTICULARS OF WATER BALLAST.—

PARTICULARS OF WATER BALLAST.			*Length.			Water Capacity.					
Where Fitted.			*Length.			Where Fitted.					
			Feet.			Tons.					
Double bottom, aft,						Fore peak tank, FEED TANK, PORT			8 30		
Double bottom, under Engines and Boilers,						After peak tank, FEED TANK, STAR.			8 30		
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 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. **3163**

Date **26-11-25**

Dates of Surveys held while building

(1925) Nov. 18. 24. 27. Dec. 2. 4. 7. 10. 14. 16. 18. 22. 25. 28. (1926) Jan. 7. 8. 11. 12. 14. 19. 22. 29. Feb. 1. 4. 10. 16. 8. 22. 26. Mar. 2. 5. 9. 11. 15. 18. 22. 31. Apr. 6. 15. 16. 21. 26. 28. 30. May 4. 6. 10. 13. 19. 24. 25. 28. June 1. 3. 4. 9.

Total No. of Visits **56.**