

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

Date of completion of report \_\_\_\_\_ Date First Survey 18<sup>th</sup> January, 1926 Last Survey 3<sup>rd</sup> September, 1926  
Survey held at Port Glasgow. "CARBONWATER" MCHY. AEE

On the (State if Machinery fitted Aft and *Twin Sc. Hopper Dredger* *CARRON WATER* or Single, Twin or Triple Screw) *MENY. APT.*  
State Type of Erections *None*

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

TONNAGE under Tonnage Deck 1178.79 CLASS  $\pm$  100 A1. State of with freeboard NO. Built at Youngs  
"HOPPER DREDGER" as condition of Class FEET. Launched 24<sup>th</sup> Apr. 1926 Yard No. 279.

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

Length from fore part of stem to after part of stern } L 222  
post on swimmer L.W.L. See Sec. 3 (1a) }

Breadth (greatest moulded) ..... B 43

Builders Ferguson Brothers (Port Glasgow)

Total	1178.79	Depth, at middle of length from top of keel to top of beam at side of uppermost continuous	D	17.5	Owners London, Midland & Scottish Ry.
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Gr. Tonnage 1231.53 deck. See Sec. 3 (1c) ..... )  
Tonnage 566.14 1st Longitudinal Number (L x D)..... = 3885 Managers..... ✓  
(Where necessary to be entered in Reg. Book.)

2nd Numeral  $L \times (B + D) \dots\dots\dots = 13431$  ✓

Residence London.

TERED DIMENSIONS.  
FEET.

Framing Depth "d," at middle of length. See  
Sec. 3 (1d) ..... 15.42

Port of Registry ..... London.

222.0 Proportions—Depth to Length  $\frac{12}{100}$   
 continuous deck to top of keel .....  
~~Do.~~ Long Bridge to top

43.25	of lost)	14.84	While Building & Afloat.
15.9	Draught Moulded		

FRAMES, ~~DOUBLE~~ BOTTOM AND<sup>x</sup> BEAMS.

		INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.				INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.	
S. Spacing amidships.....		23				<del>Bracket Floors, Frame.....</del>					
" from 1/4 length to Collision bulkhead.....		23				" " Reversed Frame.....					
" in peaks.....		23				" " Vertical Struts.....					
" IN WAY OF HOPPER.		23 1/2				Centre Girder, depth and thickness amidships					
RAMING.						" " top Angles.....					
e Amidships, Angle, <del>E or F</del>		6	3	36		" " bottom Angles.....					
IN WAY OF WELL		7	3	36	6 x 3 x 36	Side Girders, No. each side and thickness.....					
" Extends up to.....		DECK.				Margin Plate depth (excl. of flange) and thickness.....					
" IN BUNKER.						" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem.....					
sed Frame Amidships, Angle.....		3	3	40		" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem.....					
" Extends up to.....		ACROSS FLOOR TOP ONLY.				" " Gussets, spacing and scantling abaft 1/4 len. from stem.....					
" " "						" " Gussets, spacing and scantling forward 1/4 len. from stem.....					
a of Framing Girder.....		6" x 7"				Tank Side Brackets, height above base line at toe of Frame and thickness					
es in Uppermost Continuous 'tween Decks, Angle, [ or ].....						INNER BOTTOM PLATING.					
" Second 'tween Decks, Angle, [ or ].....						Breadth and thickness of Middle Line Strake.....					
" Third.....						Thickness of remainder in Holds.....					
ing in Peaks, Angle <del>E or F</del>		6	3	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?.....				YES.	
eter and Spacing of Rivets through Shell Plating.....		3/4	@	5 1/4		BEAMS.					
if Frame Joggled.....		YES.				Uppermost Continuous Deck, amidships in Wells, Angle, <del>E or F</del>		4	3	34	
NG ARRANGEMENTS (Sec. 7), state system and particulars		1 WEB FRAME & 1 SIDE STRANGER IN PEAK AS PER APPROVED PLAN.				" " in way of Bridge, Angle, <del>E or F</del> ..WELL.....		7	3	44	
GTHENING OF BOTTOM FOR. RD. State Particulars.....						Spacing.....		EVERY FRAME.			
E BOTTOM.						Second Deck, amidships, Angle, <del>E or F</del>					
s, Depth and thickness at mid line in Holds AT HOPPER SIDES.....		30		38	FL. 2 1/2" ON TOP.	Spacing.....					
" AT WELL SIDES.....		25		42		Third Deck, amidships, Angle, [ or ].....					
Height of Brackets at side above base line at toe of frame AT WELL SIDES.....		50				Spacing.....					
le Line Keelson, on Floors, Angles, [ or ].....		HOPPER KEELSON				Fourth Deck, amidships, Angle, [ or ].....					
" " Through Plate or Intercoastal Plate.....		KEELSON IN				Spacing.....					
" " Foundation Plate on Floors.....		MCHY. SPACE AS PER APPROVED PLANS				Poop Deck, Angle, [ or ].....					
" " Flat Plate Keel Angles.....						Spacing.....					
Keelsons, No. each side AT WELL SIDES.		ONE.				Bridge Deck, Angle, [ or ].....					
" thickness of Intercoastal Plate.....				35		Spacing.....					
" Angles.....		5 1/2	3	35		Forecastle Deck, Angle, [ or ].....					
" " "						Spacing.....					
E BOTTOM.											
Floors, thickness and spacing.....											
" Are Frame and Reversed Frame joggled?.....											
ket Floors, breadth and thickness at middle line.....											
" 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.
<b>PILLARS, No. of Rows.....</b>		✓			Stringer Plate, breadth and thickness in way of Bridge .....				
„ in 'tween Decks, Size and Spacing.....		✓			Thickness of Plating abreast Deck openings in way of Wells .....				
„ „ „ „ „		✓			Thickness of Plating abreast Deck openings in way of Bridge .....				
„ in Holds „ „		✓			If Sheathed, material and thickness .....				
„ „ „ „ „		✓			<b>Third Deck.</b>				
<b>Centre Line Bulkhead.</b>					Stringer Plate, breadth and thickness.....				
Stiffeners and Spacing.....		✓			If Plated, state thickness.....				
Plating, thickness of .....		✓			<b>Fourth Deck.</b>				
					Stringer Plate, breadth and thickness.....				
					If Plated, state thickness .....				
<b>STRINGERS AND DECKS.</b>					<b>Poop Deck.</b>				
<b>Uppermost Continuous Deck.</b>					Stringer Plate, breadth and thickness .....				
Stringer Plate, breadth and thickness in Wells	40	CHEQ.	48		Plating, Sheathing, material and thickness ...				
„ „ „ „ in way of Bridge	✓	✓	✓		<b>Bridge Deck.</b>				
„ Angle in Wells .....	5	5	48		Stringer Plate, breadth and thickness.....				
Thickness of Plating abreast Deck openings in way of Wells .....		CHEQ.	30		Plating, Sheathing, material and thickness ...				
Thickness of Plating abreast Deck openings in way of Bridge .....		✓			<b>Forecastle Deck.</b>				
If Sheathed, material and thickness	OVER RECOM.	P.P.	2 1/2		Stringer Plate, breadth and thickness.....				
<b>Second Deck.</b>					Plating, Sheathing, material and thickness ...				
Stringer Plate, breadth and thickness in Wells		✓							

## SHELL PLATING.

[illegible]

## WATERTIGHT BULKHEADS.

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

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Tween decks...					
" "					
" "					
" "					
" "					
" "					
" "					
" "					
" Holds .....	42/38	8" P. 9" S x 44	30"	✓	✓
" (in Hold) .....	56/30	8" P. 9" S x 44	24	✓	✓
" AFTER PEAK .....	58/30	8" P. 9" S x 44	24	✓	✓

FORGINGS ~~and CASTINGS.~~

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, <del>Bar</del> .....	FLAT PLATE KEEL.			
STEM .....	STEEL PLATES & ANGLES.			
STERN FRAME {	Propeller Post .....	✓	✓	✓
	Rudder .....	FORGING	6 3/8 x 2 1/2	R. HERR.
RUDDER—A x D .....		156		
Speed of Vessel .....		9 KNOTS.		
RUDDER mainpiece at head ...	FORGING	6" DIA.	} R. HERR & SONS L <sup>Y</sup>	
" " heel ...	"	4 1/2 "		
" how constructed .....	FORGED & BUILT.			
" double or single plate	SINGLE	86		
" 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.) CARGO VESSEL IRON; CONSETT IRON CO., LANARNSHIRE STEEL CO., D. COLVILLE & SONS, STEEL COMPANY OF SCOTLAND, SOUTH DURHAM STEEL & IRON CO.				
Has the Steel been tested as required by the Rules? YES.				



EQUIPMENT No. 13608				LETTER				ANCHORS.			
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	
	1st Bower ...										
	2nd " ...	FOR ANCHORS			SEE PAGE 4.						
	3rd " ...										
	Collective weight.										
	Stream .....										

CHAIN CABLES.												HAWSERS AND WARPS.							
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.				Length and Size supplied.		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.	Cir.					Length.	Cir.		Length.	Cir.
60858	150 1/2	1 1/4	31 1/2	63 1/2	215-1-0	430-0-0	300	1 1/2	SHORT LINK	H. BLOOMER.	11/24/20-6-26	DRAYS	POWLINE...	Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
60859	150 1/2	1 1/4	31 1/2	63 1/2	215-1-0	430-0-0	300	1 1/2	"	"	"	"	HAWSERS & WARPS }						
60723	200 3/4	1 3/4	15 1/2	30 1/2	138-3-19	138-1-9	200	1 1/2	"	"	"	31-5-26		Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
60744	200 3/4	1 3/4	15 1/2	30 1/2	138-3-19	138-1-9	200	1 1/2	"	"	"	3-6-26							
60792	200 3/4	1 3/4	15 1/2	30 1/2	138-3-19	138-1-9	200	1 1/2	"	"	"	22-6-26							
Stream	90	3/4	-	22			90	3/4	A.S.W.										
Steel Wire																			

Steering Gear, Steam & HAND COMBINED, BY J. LYNN & C. Steering Gear, Hand SET BY TILLER & TACKLE.

Boats 2 LIFEBOATS 17'-0" Steering Chains, Size and Test 7/8" dia. 90 TONS TEST. Windlass } STEAM. 1 PORT, 1 STAR.  
BY FERGUSON BROS. LD.

Ceiling in <sup>WORKSHOP</sup> Hold, thickness and material 2" WHITE PINE. Cargo Battens, thickness, material and spacing NONE FITTED

Cargo Hatchways.-(Upper Deck) FORMED OF STEEL PLATES & ANGLES. Thickness of Hatches 2 1/2" SOLID WHITE PINE.

Size of No. 1 Hatchway (Forward) 5'-9" x 6'-0" No. 2 5'-9" x 6'-0" No. 3 ✓ No. 4 ✓ No. 5 ✓ No. 6 ✓

Number of Shifting Beams and/or Fore and Afters NONE FITTED.

FERGUSON BROTHERS (PORT GLASGOW) LTD.

Builder's Signature Robert Feynman DIRECTOR.

GENERAL DECLARATION The vessel has been built in accordance with the approved plans, instructions & printed Rules of this Society. The materials & workmanship are of good quality. The freeboard has been verified & the marks cut in on the vessel's sides.

The fore peak, after peak tank, fuel tanks, W.T. Bulkheads, weather deck & hand pumps have been tested as required by the Rules, & found satisfactory.

An interim certificate has been issued, see copy attached.

The amount of Entry Fee ..... £ 5 : 0 : 0 Fees applied for, 7th Sept. 1926

Special Survey Fee.... £ 123 : 4 : 0 Received by me, 1-11-26

FREEBOARD 5 : 0 : 0

Travelling Expenses, if any £ - : - : -

I am of opinion the Vessel should be Classed \* 100 A1. "HOPPER DREDGER"

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

Signature H. L. Swinton. Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to Glasgow GREENOCK. Date of issue 2/11/26.

Committee's Minute GLASGOW 14 SEP 1926

Character assigned + 100 A1

Hopper Dredger

Lloyds A.C.P.

+ L.M.C. 9.26.

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

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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 plans.  
Sternpost & Rudder.  
Propeller Brackets  
Pumping Arrangement.  
Forging Reports (3).  
Midship Section as Built.

### ANCHORS.

N <sup>o</sup> . OF CERTIF.	ANCHOR	WEIGHT OF STOCK.	WEIGHT OF STOCK.	TEST PER CERTIFICATE.	WEIGHT APPROVED.	DESCRIPTION OF ANCHOR.	MAKERS.	WHERE & WHEN TESTED & SUPERINTENDENT
29540	BOW.	36-0-21	STOCKLESS	33-5-2-14	36-0-0	RYERS IMPROVED.	NOT STATED.	SUND. 12-8-26 BUTL.
29541	BOW.	36-1-14	"	33-7-0-21	36-0-0	"	"	" " "
29467	STERN	28-0-14	"	27-4-1-14	28-0-0	"	"	" 28-5-26 "
29495	SIDE.	15-1-14	"	16-16-2-7	15-0-0	"	"	" 17-6-26 "
29518	SIDE.	15-1-14	"	16-16-2-7	15-0-0	"	"	" 29-6-26 "
29519	SIDE.	15-1-7	"	16-16-2-7	15-0-0	"	"	" " "
29151	SIDE.	14-3-0	"	16-5-2-14	15-0-0	"	"	" 12-11-25 "
		161-2-0			160-0-0			

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1 <sup>st</sup> ANCHOR. W <sup>t</sup> OF HEAD	19-3-24	SURV. INLS.	K.H.	N <sup>o</sup> . OF CERTIF.	3911.	DATE OF TEST.	27-5
	2 <sup>nd</sup> "	"	20-0-27	"	K.H.	"	3910	" 27-5
	3 <sup>rd</sup> "	"	16-3-11	"	M.B.	"	2725	" 27-4
	4 <sup>th</sup> "	"	8-3-23	"	M.B.	"	2613	" 20-1
	5 <sup>th</sup> "	"	9-1-1	"	K.H.	"	3696	" 17-1
	6 <sup>th</sup> "	"	9-1-1	"	K.H.	"	3699	" 17-1
	7 <sup>th</sup> "	"	8-3-1	"	M.B.	"	2603	" 15-1

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 and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) **1 BK. (Stl.)**

Official No. **149714**; Signal Letters

If bottom of Vessel has been coated Inside **YES**

particulars of composition **PORTLAND CEMENT.**

### PARTICULARS OF WATER BALLAST.—

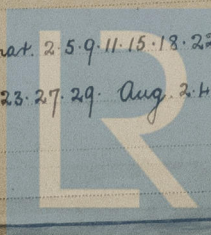
PARTICULARS OF WATER BALLAST.					
Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water
Double bottom, aft,			Fore peak tank,	✓	
Double bottom, under Engines and Boilers,			After peak tank,		
Double bottom, if under Engines only,			Deep tank, aft, <i>FEED TANK, PORT.</i>	<i>11.75</i>	
Double bottom, if under Boilers only,			Deep tank, forward, <i>" " STAR.</i>	<i>11.75</i>	
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. **3166**

Date **7-12-25**

Dates of Surveys held while building

(1926) Jan. 18. 20. 29. Feb. 1. 3. 5. 9. 11. 16. 18. 22. 24. 26. Mar. 2. 5. 9. 11. 15. 18. 22. 24. 29. 31. Apr. 2. 6. 9. 15. 21. 26. 28. 30. May 12. 19. 24. 28. June 1. 3. 7. 18. 28. July 16. 19. 20. 21. 23. 27. 29. Aug. 2. 4. 6. 10. 12. 17. 20. 23. 24. 26. 27. 30. Sept. 1. 2. 3.



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