

STEEL STEAMER ~~OF~~ MOTORSHIP.

16 MAR 1927

Received at London Office 18664

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 11th March 1927. Port of Grunock No. 18664Survey held at Port Glasgow. Date First Survey 22nd December 1925. Last Survey 11th March 1927.On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Twin Sc. Hopper Dredger "PIEL" MCHY. AFT.State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Full Scantling. State Type of Erections None.TONNAGE under Tonnage Deck... 1171.17 CLASS + 100A1. State if with freeboard 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 (1a) L 222 Launched 1st March 1927. Yard No. 280.Total 1171.17 Breadth (greatest moulded) B 43 Builders Lugson Brothers (Port Glasgow) & Co.Gross Tonnage 1226.30 Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 17.5 Owners London, Midland, & Scottish Rail. Co.Register Tonnage 531.45 1st Longitudinal Number (L x D) = 3885 Managers ✓ (Where necessary to be entered in Reg. Book.)REGISTERED DIMENSIONS. FEET. Framing Depth "d," at middle of length. See Sec. 3 (1d) 15.42 Residence LondonLength 222.0 Proportions—Depth to Length—Uppermost continuous deck to top of keel 12.7 Port of Registry LondonBreadth 43.25 Do. Long Bridge to top of keel ✓ If surveyed while building, afloat, & in dry dockDepth 15.9 Draught Moulded 14.82 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.
FRAMES, Spacing amidships <u>CLEAR OF HOPPER.</u>	23		Bracket Floors, Frame		
" " from $\frac{1}{4}$ length to Collision bulkhead	23		" " Reversed Frame		
" " in peaks	23		" " Vertical Struts		
" " IN WAY OF HOPPER	23 $\frac{1}{2}$		Centre Girder, depth and thickness amidships		
SIDE FRAMING.			" " top Angles		
Frame Amidships, Angle, <u>E or F</u>	6 3 36		" " bottom Angles		
" " IN WAY OF WELL <u>F</u>	7 3 36	6 x 3 x 36	Side Girders, No. each side and thickness		
" " Extends up to <u>DECK.</u>			Margin Plate depth (excl. of flange) and thickness		
Reversed Frame <u>IN BUNKER</u> Amidships, Angle	3 3 40		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem		
" " Extends up to <u>ACROSS FLOOR TOP ONLY.</u>			" " Vertical Angle to Tank side Bracket forward $\frac{1}{4}$ len. from stem		
Depth of Framing Girder	6" x 7"		" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem		
Frames in Uppermost Continuous 'tween Decks, Angle, <u>E or F</u>			" " Gussets, spacing and scantling forward $\frac{1}{4}$ len. from stem		
" " Second 'tween Decks, Angle, <u>E or F</u>			Tank Side Brackets, height above base line at toe of Frame and thickness		
" " Third " " "			INNER BOTTOM PLATING.		
Framing in Peaks, Angle <u>E or F</u>	6 3 36		Breadth and thickness of Middle Line Strake		
Diameter and Spacing of Rivets through Shell Plating	$\frac{3}{4}$ AT 5"		Thickness of remainder in Holds		
State if Frame Joggled	<u>YES.</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>	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	<u>1 WEB FRAME & 1 SIDE STRINGER IN PEAK AS PER APPROVED PLAN.</u>		BEAMS.		
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<u>✓</u>		Uppermost Continuous Deck, amidships in Well, Angle, <u>E or F</u>	4 3 34	
SINGLE BOTTOM.			" " in way of Bridge, Angle, <u>E or F</u> <u>WELL</u>	7 3 44	<u>as plan</u>
Floors, Depth and thickness at mid-line in Hold <u>HOPPER SIDES.</u>	30 38 4.22 ON TOP		Spacing	<u>EVERY FRAME.</u>	
" " AT WELL SIDES	25 42		Second Deck, amidships, Angle, <u>E or F</u>		
Height of Brackets at side above base line at toe of frame <u>AT SIDES.</u>	50		Spacing		
Middle Line Keelson, on Floors, Angles, <u>E or F</u>	<u>HOPPER KEELSON</u>		Third Deck, amidships, Angle, <u>E or F</u>		
" " Through Plate or Intercoastal Plate	<u>KEELSON IN</u>		Spacing		
" " Foundation Plate on Floors	<u>MCHY. SPACE AS PER APPROVED PLANS.</u>		Fourth Deck, amidships, Angle, <u>E or F</u>		
" " Flat Plate Keel Angles			Spacing		
Side Keelsons, No. each side <u>AT WELL SIDES</u>	<u>ONE</u>		Poop Deck, Angle, <u>E or F</u>		
" " thickness of Intercoastal Plate	<u>35</u>		Spacing		
" " Angles	<u>5 1/2 3 35</u>		Bridge Deck, Angle, <u>E or F</u>		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing			Forecastle Deck, Angle, <u>E or F</u>		
" " Are Frame and Reversed Frame joggled?			Spacing		
Bracket Floors, breadth and thickness at middle line					
" " breadth and thickness at margin plate					

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Lloyd's Register Foundation

~~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.....					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				
" " " " "					Third Deck.				
Centre Line Bulkhead.					Stringer Plate, breadth and thickness.....				
Stiffeners and Spacing.....					If Plated, state thickness.....				
Plating, thickness of					Fourth Deck.				
STRINGERS AND DECKS.					Stringer Plate, breadth and thickness.....				
Uppermost Continuous Deck.					If Plated, state thickness				
Stringer Plate, breadth and thickness in Wells	48		48	/	Poop Deck.				
" " " " in way of Bridge				/	Stringer Plate, breadth and thickness				
" Angle in Wells	5	5	48	/	Plating, Sheathing, material and thickness ...				
Thickness of Plating abreast Deck openings in way of Wells	CHEQ.		30	/	Bridge Deck.				
Thickness of Plating abreast Deck openings in way of Bridge	CHEQ.		12	/	Stringer Plate, breadth and thickness.....				
If Sheathed, material and thickness OVER ACCOM. P.P. 2 1/2.				/	Plating, Sheathing, material and thickness ...				
Second Deck.					Forecastle Deck.				
Stringer Plate, breadth and thickness in Wells...					Stringer Plate, breadth and thickness.....				
					Plating, Sheathing, material and thickness ...				

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 A 9x32x4	20	✓
COLLISION	"	(in Hold)	36/30 8 A 9x32x4	24	✓
AFTER PEAK	"	"	38/30 8 A 9x32x4	24	✓

FORGINGS ~~and~~ CASTINGS

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar		FLAT PLATE KEEL.		
STEM (<i>DOUBLE ROW.</i>)		STEEL PLATES & ANGLES.		
STERN FRAME				
{ Propeller Post				
{ Rudder "		FORGING. 6" 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	
" " heel ..		" 4 1/2 "	"	JOHN L?
" 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.) D. COLVILLE & SONS. LANARKSHIRE STEEL CO., CARCO FLEET IRON CO., CANSETT IRON CO., SOUTH DURHAM STEEL & IRON CO.*

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

EQUIPMENT No. 12608										LETTER	ANCHORS.		
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Owts.	qrs.	lbs.	Owts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.		
	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 ^{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.
60922	Fathoms.	Ins.	Tons.	Tons.	Cwts. qrs. lbs.	Cwts.	Fathoms.	Ins.	SHORT LINK	N. BLOOMER.	TIMOTHY. 27-1-27 DRYSDALE	TOWLINE...	Fathoms.	Ins.	Tons.	Fathoms.	Ins.
61421	150 3/4	1 3/8	21 1/2	63 1/2	210. 2. 21	430	300	1 3/8	"	"	" 31.1.27	"					
60747	150 3/4	1 3/8	15 1/2	30 1/2	211. 2. 15		200	1 3/8	"	"	" 29.6.26	"					
60827	200 3/4	1 3/8	10 1/2	21	139. 2. 24	138			"	"	" 14.9.26 JESSON.	"	90	6	Hemp.		
60914	200 3/4	1 3/8			97. 1. 19	193	400	1 3/8	"	"	" 16.9.26	"	90	5	"		
James' Stream Cable Steel Wire	90	3/4	—	22	97. 1. 6		90	3/4	G. S. W.			"					

Steering Gear, Steam & HAND CONTAINER, BY J. LYNN & CO. Steering Gear, Hand SET BY TILLER & TACKLE.

Boats 2 LIFEBOATS 17'-0". Steering Chains, Size and Test 7/8" DIA. 98 TONS TEST. Windlass } STEAM. 1 PORT, 1 STAR? BY FERGUSON BROS., L^{rs}.

WORKSHOP
Ceiling in 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) ^{PORT.} 5'-9" x 6'-0" ^{STAR.} 5'-9" x 6'-0" No. 2 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 *Ferguson* 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, feed 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, 11. 3. 1927

Special Survey Fee.... £ 122 : 12 : 0 Received by me, 31. 3. 27

FREEBOARD. 5 : 0 : 0

Travelling Expenses, if any £ —

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

State whether the Vessel has been built under Special Survey **YES.** Signature *N. L. Swinton.*
Surveyor to Lloyd's Register of Shipping.

H+M via GLO. Date of issue 1/4/27
Certificate to be sent to GREENOCK.

Committee's Minute **GLASGOW 15 MAR 1927 ✓**

Character assigned **- 100A1**
Hopper Dredger
327
Lloyd's A+CP
+ LMC 327

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

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.
Forging Reports (2).

Also pumping arrangement of sister vessel "CARRONWATER"

Sister vessel to "CARRONWATER", with hopper 9.75 feet shorter.
G.R. Rep. No. 18605.

ANCHORS.

N ^o of CERTIF.	ANCHOR	WEIGHT EX. STOCK.	WEIGHT OF STOCK.	TEST PER CERTIFICATE.	WEIGHT APPROVED.	DESCRIPTION OF ANCHOR.	MAKERS.	WHERE & WHEN TESTED & SUPERINTENDENT.
29753	ROW.	36-1-0	STOCKLESS	33-5-2-14	36-0-0	BYERS IMPROVED.	NOT STATED	SUND. 8-2-27 BUTLER.
29756	ROW.	35-3-14	"	32-16-3-14	36-0-0	"	"	" 10-2-27 "
29768	STERN	28-1-14	"	27-8-0-14	28-0-0	"	"	" 14-2-27 "
29496	SIDE.	15-2-7	"	19-0-3-21	15-0-0	"	"	" 17-6-26 "
29758	SIDE.	15-0-14	"	16-12-0-21	15-0-0	"	"	" 11-2-27 "
29765	SIDE	15-0-21	"	16-14-1-14	15-0-0	"	"	" 14-2-27 "
29766	SIDE.	14-3-0	"	16-5-2-14	15-0-0	"	"	" 14-2-27 "
		160-3-14			160-0-0			

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1 st ANCHOR. W ^t of HEAD. 20-2-8, SURV. INLS. M.B., N ^o of CERT. 3061, DATE OF TEST. 28-12-26
	2 nd " " 20-2-17 " M.B. " 3023 " 27-10-26
	3 rd " " 16-3-25 " K.H. " 1300 " 18-1-27
	4 th " " 8-3-21 " M.B. " 2594 " 15-10-25
	5 th " " 8-3-12 " K.H. " 2975 " 16-6-26
	6 th " " 8-3-8 " M.B. " 2855 " 15-7-26
	7 th " " 8-2-27 " K.H. " 3974 " 16-6-26

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 DK. (Stl.)

Official No. 149785; Signal Letters
If bottom of Vessel has been coated Inside YES. give particulars of composition PORTLAND CEMENT.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. 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, FLEET TANK. PORT.	9.75	17½
Double bottom, if under Boilers only,			Deep tank, forward, " " STAR?	9.75	17½
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. 268

Date 15-1-26.

Dates of Surveys held while building

(1925) Dec. 22-28 (1926) Jan. 6-13-18-20-29 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 4-6-10-13-19-24-28 June 1-3-4-11-18-28 July 16-21-23-24 Aug. 2-4-6-10-14-20-26-31 Sept. 6-8-10-14-23-28 Oct. 1-5-6-11-13-15-19-22
Nov. 24 Dec. 2-15-14-24 (1924) Jan. 12-14-20-25-24-31 Feb. 8-9-16-14-18-25 Mar. 1-4-9-10-11

Total No. of Visits 96.