

1 or 2 Dks., R.Q.Dk.,
and Pt. Awng. Dk.

IRON OR STEEL STEAMER.

No. 20914

State of Report is also sent on the Machinery of the Vessel.

Date of completion of Report 15th June 1903

Date, First Survey 28th August 1902

Port of Call Glasgow

Last Survey 28th June 1903

Rig One pole mast

Survey held at Renfrew

On the Steel Twin Screw Hopper Barge "Agnes."

TONNAGE under Tonnage Deck	1688.12
Do. of Poop Raised Forecastle	49.38
Do. of Raised Qr.	67.88
Do. of Break.	
Do. of Bridge House	
Do. of Forecastle	
Do. of Houses on Deck	21.56
Do. of excess of Hatchways	64.16
Do. above Crown of Engine Room	
Gross Tonnage	1891.10
Less Crew Space	100.89
Less above Crown of Engine Room	
TONNAGE FOR FEES	1790.21
Less Engine Room	605.15
Less Navigation Spaces	23.88

ONE OR TWO DECKED VESSEL.

CLASS + A 1 "Hopper barge"

Half Breadth (moulded)	22.00
Depth from upper part of Keel to top of Main Deck Bms. (with the normal round up of beam)	19.66
Girth of Half Midship Frame (as per Rule)	39.30
1st Number	80.96
Length on deck from after part of stem to fore part of stern post	278.34
2nd Number	22534
Proportions—Breadths to Length	6.32
Depths to Length—Main Deck to top of Keel	14.15
Destined Voyage	East London
If Surveyed while Building, Afloat, or in Dry Dock	Yes

Master

Year of appointment (1) As master in service of owner of present vessel:—19 (2) As master of this vessel:—19

Built at Renfrew

When built 1902/1903 Launched 12th May 1903

By whom built Messrs W. Simons & Co

Owners East London Harbour Board

Managers

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

Residence East London

Port belonging to East London

Register Tonnage as cut on Beam 1161.18

LENGTH on Deck as per Rule	Feet. 278	Inches. 4	BREADTH—Moulded	Feet. 44	Inches. 0	DEPTH—Actual—Top of Floors to top of Main Deck Beams	Feet. 16	Inches. 11	No. of Decks with Flat laid	One	No. of Tiers of Beams	One
Dimensions of Ship per Register, Length, 280 breadth, 44.15 depth, 16.83. Moulded Depth, 18 ft. 9 3/4 ins. Round of Beam, Actual 11 ins.												

FRAMING.					FORGINGS AND CASTINGS.				
	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Appro.		Inches in Ship.	Inches per Rule Or as Approved.		
FRAME, Angles, $\frac{1}{2}$ or $\frac{3}{4}$ Bars, for $\frac{1}{2}$ length amidships	5	3 1/2	9	5	3 1/2	9	Flat Plate Keel		
Do. for $\frac{1}{2}$ at each end	5	3 1/2	8	5	3 1/2	8	STEM, moulding and thickness		
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	9	3 1/2	3 1/2	9	STERN-POST for Rudder do. do.	10 x 4 1/2	10 x 4 1/2
" " at intermdt. Bkts.							" for Propeller	8	8
Spacing of Frames from centre to centre	24			24			MAIN PIECE of Rudder, diameter at head	6 1/2 x 5 3/8	6 1/2 x 5 3/8
REVERSED FRAME, Angles	3 1/2	3	9	3 1/2	3	9	do. at heel	6 1/2 x 5 3/8	6 1/2 x 5 3/8
DEEP FRAMING, depth of girder							RUDDER, how constructed	East Steel frame & single Plate	
FLOORS, depth and thickness of Floor Plate at mid-line for $\frac{1}{2}$ length amidships							Can the Rudder be unshipped afloat?	Yes	2 1/2
" in way of Engines and Boilers			10		10		KEELSONS AND STRINGERS.		
" thickness at the ends of vessel			7		7				
" depth at $\frac{1}{2}$ the half breadth, as per Rule									
" height extended at the Bilges			See plans						
FLOORS & BRACKETS, in Cell Dble Bottoms	3 1/2		8	3 1/2	8				
" " state if flanged (top & bottom)									
" " Spacing	24			24					
CENTRE GIRDER, in Double Bottom, depth and thickness	3 1/2	10	3 1/2	10					
" " Angles, Top	4	4	9	4	4	9			
" " Bottom									
SIDE GIRDERS, number on each side & thickness in Machinery Space state if flanged (top & bottom)	Three		8	Three	8				
" " Angles	3	3	8	3	3	8			
MARGIN PLATE, depth (exclusive of flange) and thickness	1/2			1/2					
" Angles to Outside Plating	4	4	9	4	4	9			
" " Floors Brackets (double)	3 1/2	3 1/2	8	3 1/2	3 1/2	8			
" Height of Floors at the Bilges									
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake			9		9				
" " thickness in Engine and Boiler space			9		9				
" " Remainder in Holds			8		8				
BEAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	8	3 1/2	10	8	3	10	Main and Raised Quarter Deck Stringer Plate, breadth and thickness (required)		
" Angles on Upper Edge through beam	9	3 1/2	11						
" Spacing	24			24					
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	7 1/2	3	9	7	3	9			
" Angles on Upper Edge in Machinery Space	9	3 1/2	11						
" Spacing	24			24					
BEAMS, Hold, Plate or Tee Bulb	18		9	18		9			
" Angles on Upper Edge	4	3 1/2	9	4	3 1/2	9			
" Spacing	24			24					
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	6	3	9	6	3	9			
" Angles on Upper Edge									
" Spacing	48			48					
BEAMS, Bridge or Pt. Awng. Deck, Angle, Bulb Angle Plate, or Tee Bulb	7 1/2	3	9	7 1/2	3	9	Hold Stringer Plate		
" Angles on Upper Edge									
" Spacing	24			24					
PILLARS, In 'tween Decks, Size and Spacing									
" " Hold	5 x 10			as necessary					
" " Quarter, 'tween Dks., "									
" " in Hold									
WEB FRAMES, In Fore Body, No. and Spacing	5			see profile					
" " No. of Side Stringers	18		8	18		8			
WEB FRAMES, In E. & B. Space, No. & Spacing	6		4 x 5	Frame spaces					
" " Brdth. & Thickness	18		8	18		8			
WEB FRAMES, In After Body, No. and Spacing									
" " Brdth. & Thickness	2	18	8	2	18	8			
" " No. of Side Stringers	2	18	8	2	18	8			
" " Size of Angles or Tee Bars to Web Frames	3 1/2	3	9	3 1/2	3	9			
BRACKET PLATES to Stringers between Web Frames, Depth and Thickness									

PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		ROVER EDGES.		BUTTS.		BUTTS.		BUTTS.		BUTTS.				
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Single or Double.	Breadth of Lap.	Diam.	Spacing or to cr.	Double or Triple and for what length.	Diam.	Spacing or to cr.	Breadth.	Thickness.	For what length.			
FLAT PLATE KEEL.....	36	14	11	36	14	36	14	Double	5 1/2	7/8	3 3/4	T full L	1	3 1/2	19	17			
(If Bar Keel, state riveting)												T half L	7/8	2 1/2	16 1/2	15			
GARBOARD OR A STRAKE...	52	11	10	10	39	11									14				
State actual thickness in way of Double Bottom.		10	8	8		10													
B		11 1/2	8	8		10									18 1/4				
C		11 1/2	8	8		10									18 1/4				
D		11 1/2	8	8		10									18 1/4				
E		11	9	8		11									15				
F		10	8	8		10									14				
G		10	8	8		10									14				
H		10	8	8		10									14				
J		10	8	8		10									14				
Sheer K		14	10	10		14						1	3 1/2	19	18				
L																			
M																			
N																			
O																			
P																			
DOUBLING of Flat Plate Keel																			
Length and thickness of Bilges																			
Length and thickness of Sheerstrakes																			
Length and thickness of Strake below																			
POOP SIDES																			
RAISED QUARTER DECK SIDES																			
BRIDGE SIDES																			
FORECASTLE SIDES																			
LENGTHS OF PLATING																			

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, outside Plating, &c. *Siemens process*

Sanakthorpe Steel Co., 6, Lydbrook Road, Mossend, Glasgow, W. 13, Bearatone Rd., Steel Co. of Scotland, Glasgow, & Durham, 1885.

Has the Steel been tested as required by the Rules *yes*

Main Stringer Plate Butts, treble riveted for *half* length amidship. Straps, single, double or overlapped for *half* length amidship.

Butts of Bilge & Side Stringers, and Tie Plates, treble or double riveted? *548*

Inner Bottom Plating, riveting of Edges *8 1/2* angle Butts double riveted.

Centre Girder Butts, treble riveted. Keelson Butts, riveted.

Frames, riveted through Plates with *7/8* in. Rivets, about *6* apart.

Rivets, state whether of Iron or Steel *Steel*

FRAMES extend in one length from *Middle line* to *tank side* & from *tank side* to *gunwale* state if ordinary or joggled *ordinary*

REVERSED FRAMES on floors and frames extend from *Middle line* to *tank side* & from *tank side* to *gunwale* state if ordinary or joggled *ordinary*

gunwale on every frame, double or alternate frames in 6 & 13 ft. double in 8 & 13 ft. spaces

MASTS, SPARS, &c.											
LOWER MASTS...	Material.	Total length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.	
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Butts.
Fore Main Mizen	P. P.	48'	15	Pole Mast							
Bowsprit											
Topmasts, Yards and Remainder of Spars											
Rigging, Material and Size, Shrouds 2 1/2 gal Steel wire Stays 2 3/4 gal Steel wire											
Sails. one Suit of Sails and the following spare sails											

Equipment No.		Letter		ANCHORS.										Tonnage U.Dk. or Plating No. for Trawlers									
Number of Certificate.	Anchors.	WEIGHT, EX STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE.			WEIGHT REQUIRED **			Description of Anchor.	Makers.	Where and when tested and Superintendent.							
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	Cwts.	qrs.	lbs.	Cwts.	qrs.			lbs.							
48672	1st Bower ..	37	0	11	33	16	3	14	36	0	0	0	0	0	Harris Stockport	W. Hingley	Hon. H						

CHAIN CABLES.											HAWSERS AND WARPS.										
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length & Size as supplied.		Description.	Makers of Cables.	When and where tested and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire Towline.	Length and Size per Table 22.					
	Length.	Diam.	Status.	Break- ing.	Supplied.	Table 22.	Length.	Diam.					Length.	Cir.		Length.	Cir.	Length.	Cir.		
	Fathoms.	In.	Tons.	Cwt.	Cwt.	Gr.	Gr.	Cwt.	Gr.	Fathoms.	In.		Fathoms.	In.	Tons.	Fathoms.	In.				
35351	125	12	47 1/2	66 1/2	170	0	0	332	2	25	18	Steel haw. W. Hingley & Co. 5/3/03	90	10	10	90	10				
35352	100	12	28 1/2	42 1/2	81	2	21	160	0	10	10	" " " " 10/3/03	90	9	"	90	9				
35353	100	12	28 1/2	42 1/2	81	2	21	160	0	10	10	" " " " " "	90	9	"	90	9				
35354	100	12	28 1/2	42 1/2	81	2	21	160	0	10	10	" " " " " "	90	9	"	90	9				
35355	80	12	24	46	32	4	40	80	1	10	10	" " " " 5/3/03	90	7	"	90	7				
35356	60	12	12 1/2	19	12	18	3	3	3	3	3	" " " " " "	90	3 1/2	"	90	3 1/2				
Iron Steam Chain or Steel Wire.																					

Boats *Two Life Boats & one other*

Pumps, Number *seventeen* Diameter of Barrel *5* State whether they are in efficient working order *yes*

Windlasses *2 in No. are by Clarke Chapman* Capstans *4 in No. are by Clarke Chapman*

Engine Room Skylights—How constructed? *Teak*

What arrangements for deadlights in bad weather? *Teak paths with brass guards over glass*

Coal Bunker Openings—How constructed? *Plates & angles* How are lids secured? *latches & cleats* Height above deck? *15"*

Number of Scuppers, and number and dimensions of Freeing Ports, &c. *3 scuppers each side on P. & S. 1 each side on R. & L. Two freeing ports 26 x 20 each side on P. & S.*

Ceiling in Holds, thickness and material *Plates and angles*

Cargo Hatchways—How formed? *Plates and angles* Hatches—If strong and efficient? *yes*

State size No. 1 Hatch (Forward) *No. 2 Hatch* *No. 3 Hatch* *No. 4 Hatch*

Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch *Strong beams in Hopper as per plans.*

No. of Breasthooks *Four* No. of Crutches *One Hopper floor*

Bulwarks, height above deck and description *Forward 4 ft. 3" Steel Plates 5" Main Rail and Stays, material and size 7 1/2 x 3 Teak, 1 1/2" Iron Stays*

The above is a correct description.

Builder's Signature (here only) *Jm Smirnov & Co* Surveyor's Signature *J.R. Mares* Surveyor to Lloyd's Register of British and Foreign Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with the case)

M 30/4/02 *E 6/10/02*

Workmanship. Are the butts of plating planed or otherwise fitted? *Planed*

Is the riveted work properly closed? *yes*

Are the liners between the frames and plates solid single pieces? *yes* Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *yes* Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? *yes* Do any rivets break into or through the seams or butts of the plating? *a few*

Are the butts of Plating, Stringers, &c., properly shifted and strapped? *yes*

Have all the upper and weather decks been tested as required by the Rules (Sec. 23, par. 24)? *yes* State results of tests *Satisfactory*

Have all the gutterways been tested as required by the Rules (Sec. 23, par. 25)? *yes* State results of tests *Satisfactory*

General Remarks (State quality of workmanship, &c.) *Workmanship good.*

This Sand Pump Hopper dredger has been built in accordance with the approved plans, the Secretary's attests of above dates and in general conformity to the Rules for the Plans contemplated.

5 Plans
1 Report on Ship Castings
1 " " " " " " " " " " " "

The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *92* ft., R.Q.D. or Break *92* ft., Bridge Dk. *62* ft., F'castle *32* ft. (in feet and tenths) where the Poop is on top of the R.Q.D., or when the Poop or R.Q.D. is joined to the B.D., this should be distinctly stated

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) *1 Dk (pt. Sd. pt. Trak 5)*

Official No. *1*; Signal Letters *1* State if Machinery is fitted aft *yes*

How are the surfaces preserved from oxidation? Inside *Paint & Cement* Outside *Paint*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors <i>Cellular system</i>					
Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	<i>✓</i>		Fore peak tank,	<i>✓</i>	
Double bottom, under Engines and Boilers,	<i>70</i>	<i>156</i>	After peak tank,	<i>✓</i>	
Double bottom, if under Engines only, <i>in way of Hopper</i>	<i>94</i>	<i>148</i>	Deep tank, aft	<i>✓</i>	
Double bottom, if under Boilers only,			Deep tank, forward	<i>✓</i>	
Double bottom, forward,	<i>70</i>	<i>140</i>	Other tanks, if fitted,	<i>✓</i>	
		<i>144</i>	(If necessary, furnish further information by sketch.)		
* The wells are not to be included in the lengths of the tanks.			State whether the above have been tested as required by the Rules <i>yes</i>		

Order for Special Survey No. *3585*

Date *25.8.03*

No. *401* in builder's yard.

DATE OF SURVEY held while building

1902: Aug 28 Sep 1, 8, 11, 15, 19, 23, 26, 30. Oct 3, 7, 14, 17, 23, 27, 31. Nov 4, 6, 11, 14, 17, 21, 25, 28. Dec 2, 5, 9, 11, 16, 19, 23, 30. 1903: Jan 9, 13, 16, 20, 23, 26, 29. Feb 3, 6, 11, 16, 24, 26. Mar 3, 6, 10, 13, 16, 23, 26, 31. Apr 1, 3, 7, 9, 14, 17, 22, 27. May 1, 5, 8, 11, 15, 20, 24. Jun 2, 5, 9.

Total No. of Visits *71*

The amount of Entry Fee *£ 4* : : Fees applied for, *18.61* 1903

Special *£ 69* : 15 : Received by me, *R.A.D.*

Travelling Expenses, if any *£* : : JUN 19 1903

State whether the Vessel has been built under Special Survey *yes*

I am of opinion this Vessel should be Classed *+ A1 "Steel" Hopper dredger*

With, or without Freeboard, as condition of Class *Without*

Surveyor to Lloyd's Register of British and Foreign Shipping. *J.R. Mares*

Committee's Minute *Glasgow 22 JUN 1903*

Character assigned *+ A1 (Steel) "Hopper Dredger" Lloyd's R.C.P.*

J.R. Mares