TUES. FEB 25 1902

TUES. FEB 25 1902 734

No. 196325

1 ~~or 2~~ Dks., ~~R.Q.Dk.,~~ ~~and Pt. Awng. Dk.~~ ~~IRON OR~~ STEEL STEAMER.

State if Report is also sent on the Machinery of the Vessel Yes — *Received at London Office*

Date of completion of Report 22nd February 1902 Port of Glasgow

Survey held at Paisley — Date, First Survey 24 April 1901 Last Survey 19th Feb 1902

On the Steel Screw Hopper Barge No 22 — Rig One pole mast with staysail

ONE ~~OR TWO~~ DECKED VESSEL.

CLASS ✠ 100 A 1 "Hopper Barge"

		FEET.
TONNAGE under Tonnage Deck	662.99	
Do. of Poop	-	
Do. of Raised Qr. Dk. or Break	-	
Do. of Bridge House	-	
Do. of Forecastle	-	
Do. of Houses on Deck	3.66	
Do. of excess of Hatchways		
Do. above Crown of Engine Room	33.62	
Gross Tonnage	700.27	
Less Crew Space	28.31	
Less above Crown of Engine Room	33.62	
TONNAGE FOR FEES	638.34	
Less Engine Room	257.86	
Less Navigation Spaces	13.52	
Register Tonnage *as cut on Beam*	300.58	
Half Breadth *(moulded)*		15.00
Depth *from upper part of Keel to top of Main Deck Bms. (with the normal round up of beam)*		15.62
Girth *of Half Midship Frame (as per Rule)*		29.02
1st Number		59.64
Length *on deck from after part of stem to fore part of stern post*		188.84
2nd Number		11262
Proportions—*Breadths to Length*		6.29
Depths to Length—Main Deck to top of Keel		12.08

Master —

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

Built at Paisley

When built 1901 & 1902 *Launched* 23rd Jany 1902

By whom built Fleming & Ferguson

Owners Mersey Docks & Harbour Board

Managers

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

Residence Liverpool

Port belonging to Liverpool

Destined Voyage Liverpool — *If Surveyed while Building, Afloat, or in Dry Dock*

	Feet.	Inches.		Feet.	Inches.		Feet.	Inches.	
LENGTH on Deck as per Rule	188	10	**BREADTH**—Moulded	30	0	**DEPTH, ACTUAL**—Top of Floors to top of Main Deck Beams	14	2	No. of Decks with Flat laid: One; No. of Tiers of Beams: One

Dimensions of Ship per Register, Length, 190.2 breadth, 30.15 depth, 14.2. Moulded Depth, 15 ft. 0 ins. Round of Beam, Actual 7½ ins.

FRAMING.

	Inches in Ship.	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule Or as	Inches per Rule as Approved	16ths or 20ths per Rule ved.
FRAME, Angles, ~~L, E or L Bars~~, for ⅜ length amidships	4½	3	7	4½	3	7
Do. for ⅛ at each end	4½	3	6	4½	3	6
Do. in way of Double Bottoms at Solid Floors		✓				
,, ,, at intermdt. Bkts.		✓				
Spacing of Frames from centre to centre		22			22	
REVERSED FRAME, Angles	3	2½	6	3	2½	6
DEEP FRAMING, depth of girder		✓				
FLOORS, depth and thickness of Floor Plate at mid-line for ⅜ length amidships	17½		7	17½		7
,, in way of Engines and Boilers	E		8			8
,, thickness at the ends of vessel	B		9			9
,, depth at ¾ the half breadth, as per Rule		Straight across	6	see plan		6
,, height extended at the Bilges	Rule height by brackets to each floor					
FLOORS & BRACKETS, in **Cell Dble Bottoms**		✓				
,, ,, state if flanged (top & bottom)		✓				
,, ,, Spacing		✓				
CENTRE GIRDER, in Double Bottom, depth and thickness		✓				
,, ,, Angles, Top		✓				
,, ,, ,, Bottom		✓				
SIDE GIRDERS, number on each side & thickness		✓				
,, ,, state if flanged (top & bottom)		✓				
,, Angles		✓				
MARGIN PLATE, depth (exclusive of flange) and thickness		✓				
,, Angles to Outside Plating		✓				
,, ,, Floors		✓				
,, Height of Floors at the Bilges		✓				
INNER BOTTOM PLATING, breadth and thickness of **Middle Line Strake**		✓				
,, ,, thickness in Engine and Boiler space		✓				
,, ,, ,, Remainder in Holds		✓				
BEAMS, Main ~~and Raised Quarter~~ Deck, Single Angle, ~~Bulb Angle, Plate or Tee Bulb~~	5½	3	7	5½	3	7
,, Angles on Upper Edge		✓				
,, Spacing		22			22	
BEAMS, ~~Lower Deck, Single Angle, Bulb Angle Plate or Tee Bulb~~ Cabin Sole	6½	3	8	6½	3	8
,, Angles on Upper Edge		✓				
,, Spacing		44			44	
BEAMS, ~~Hold, Plate or Tee Bulb~~ Flat in way of Hopper Angles	4½	3	6	4½	3	6
,, Angles on Upper Edge		✓				
,, Spacing		22			22	
BEAMS, ~~Poop~~ MAIN Deck, ~~Angle, Bulb Angle, Plate~~ or Tee Bulb	Plate	12	6		12	6
,, Angles on Upper Edge	3	3	6	3	3	6
,, Spacing		22			22	
BEAMS, Bridge or Pt. Awng. Deck, Angle, Bulb Angle Plate, or Tee Bulb		✓				
,, Angles on Upper Edge		✓				
,, Spacing		✓				
BEAMS, Forecastle Deck, Angle, ~~Bulb Angle, Plate or Tee Bulb~~	5½	3	7	5½	3	7
,, Angles on Upper Edge		✓				
,, Spacing		22			22	
PILLARS, In 'tween Decks, Size and Spacing	2½	where necessary				
,, ,, **Hold** ,, ,,	3 5/8					
,, **Quarter, 'tween Dks.,** ,, ,,						
,, ,, **in Hold** ,, ,,						
WEB FRAMES, In ~~Fore Body~~ WAY OF HOPPER, No. and Spacing	16	44		16	44	
,, ,, ,, Brdth. & Thickness	18		7	18		7
,, No. of Side Stringers ,, ,,						
WEB FRAMES, In E. & B. Space, No. & Spacing	3	as plans		3		
,, ,, ,, Brdth. & Thickness	15		7	15		7
WEB FRAMES, In After Body, No. and Spacing		✓				
,, ,, ,, Brdth. & Thickness		✓				
,, No. of Side Stringers ,, ,,	One	15	7	one	15	7
,, Size of Angles or Tee Bars to **Web Frames**	3	2½	6	3	2½	6
BRACKET PLATES to Stringers between Web Frames, Depth and Thickness		✓				

FORGINGS AND CASTINGS.

	Inches in Ship.	Inches per Rule. Or as Approved.
KEEL, Bar or Side Plates depth and thickness	Flat Plate	Keel
STEM, moulding and thickness	7 × 2¼	7 × 2¼
STERN-POST for Rudder do. do.	7 × 4¼	7 × 4¼
,, for Propeller	7 × 4¼	7 × 4¼
MAIN PIECE of Rudder, diameter at head	5	5
do. at heel	3⅞ × 3¾	4 × 3½

RUDDER, how constructed Forged Iron Frame Single Plate 15/20

Can the Rudder be unshipped afloat? Yes

KEELSONS AND STRINGERS.

	Inches in Ship.	Inches in Ship	16ths or 20ths in Ship.	Inches per Rule Or as	Inches per Rule as Approved	16ths or 20ths per Rule ved.
CENTRE LINE KEELSON, Vertical Plate above floors, ~~Through Plate, or Intercostal Plate~~	10		8	10		8
,, Rider Plate	9½		8	9½		8
,, ~~Bulb Plate to~~ Intercostal Keelson. PLATE.			7			7
,, Horizontal Plates on Floors		✓				
,, Angles	4½	3	7	4½	3	7
SIDE KEELSON, Angles		✓				
,, Bulb or Plate above floors for ____ lng.		✓				
,, Intercostal Plate for 1/2 length			6			6
,, Attached to outside plating with Angle		✓				
BILGE KEELSON, Angles	4½	3	7	4½	3	7
,, Bulb ~~or~~ Plate above floors for 3/5 lng.	7		7	7		7
,, Intercostal Plate for ____ length		✓				
,, Attached to outside plating with Angle		✓				
BILGE STRINGER Angles	4½	3	7	4½	3	7
,, Bulb Plate for ____ length		✓				
,, Intercostal Plate for ____ length		✓				
,, Attached to outside plating with Angle		✓				
SIDE STRINGER Angles (3)	3	2½	6	3	2½	6
,, ~~Bulb or Intercostal~~ Plate for ____ lng.	15		7	15		7
,, Attached to outside plating with Angle	3	2½	6	3	2½	6

	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule Or as	16ths or 20ths per Rule ved.
Main ~~and Raised Quarter~~ Deck Stringer Plate, breadth and thickness	27	10-9	27	10-9
,, Angle on ditto	4½ × 3	7	4½ × 3	7
,, ~~Tie Plates, outside Hatchways~~	Deck Plating increased in thickness in way of large openings			
,, ~~Diagonal Tie Plates on Bms., No. of Pairs~~				
,, Main Dk* ~~Iron or~~ Steel for full lng.		6		6
,, R. Q. Dk* Iron or Steel for ____ lng.	✓			
,, Wood Deck, Material & thickness P. Pine	3½		3½	
Lower Deck ~~Stringer Plate,~~ FLAT IN WAY OF HOPPER breadth and thickness		7		7
,, Angles on ditto, No.	3 × 3	7	3 × 3	7
,, Tie Plates, outside Hatchways	✓			
,, Deck* Material and thickness	✓			
Hold Stringer Plate	✓			
,, Angles on ditto, No.	✓			
Poop Deck Stringer Plate, breadth & thickness	✓			
,, Angle on ditto	✓			
,, Tie Plates	✓			
,, Deck, Material and thickness	✓			
Bridge or Pt. Awning Deck Stringer Plate, breadth and thickness	✓			
,, Angle on ditto	✓			
,, Tie Plates	✓			
,, Deck, Material and thickness	✓			
Forecastle Deck Stringer Plate, brdth & thcknss		6		6
,, Angle on ditto	4 × 3	7	4 × 3	7
,, ~~Tie Plates~~ DECK PLATING	6/20 × 12/20			6
,, Deck, Material and thickness P. Pine	3½		3½	

* *If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.*

BULKHEADS.

	Number. In Vessel.	Number. Per Rule.	Thickness, ~~16ths or~~ 20ths.	STIFFENERS. Horizontal. Size. Inches.	Horizontal. Spacing Inches.	Vertical. Size. Inches.	Vertical. Spacing Inches.	Single or Double Frames.	Height up.
W.T. BULKHEADS	6	4	6/16	3½ × 3 ×	7/20		30	Dble	DK
~~PARTITION~~ ,,	Hopper Bulks 7/20 Stiffeners					T 7 × 3 × 7/20 8 × 7/20			
~~LONGITUDINAL~~ ,,									

Are the outside Plates doubled two spaces of Frames in length? Diamond Plates fitted

Are the ~~Sluice Valves and~~ Watertight Doors in efficient working order? Yes

Form No. 1A. 1/10/00.

00279-00088-0031

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TUES. FEB 25 1902

PLATING.

STRAKES.	AS IN SHIP. AMIDSHIP. Breadth.	AMIDSHIP. Thickness.	FORWARD. Thickness.	AFT. Thickness.	PER RULE OR AS APPROVED. AMIDSHIP. Breadth.	Thickness.
	Inches	~~Either~~ 20ths	~~Either~~ 20ths	~~Either~~ 20ths	Inches.	~~Either~~ 20ths
Flat Plate Keel (If Bar Keel, state Riveting)	36	12	9	9	36	12
Garboard or A Strake	46	9	8	8	46	9
B "		8	7	7		8
C "		8	7	7		8
D "		9	7	7		9
E "		10	8	8		10
F "		8	7	7		8
G "		9	7	7		9
Sheer H "	40	12	8	8	40	12
J "						
K "						
L "						
M "						
N "						
O "						
P "						
Doubling of Flat Plate Keel	✓					
Length and thickness of Bilges	✓					
of Sheerstrakes	✓					
of Strake below	✓					
Poop Sides	✓					
Raised Quarter Dk. Sides	✓					
Bridge Sides	✓					
Forecastle Sides			6			
Lengths of Plating	9 @ 10	Frame spaces				

State actual thickness in way of Double Bottom.

White "Sheer Strake" opposite its corresponding Letter.

RIVETING.

STRAKES.	Lower EDGES. Ordinary ~~or Joggled~~? Single or Double.	Breadth of Lap.	RIVETS. Diam.	RIVETS. Spacing cr. to cr.	BUTTS. Double or Treble and for what Length.	RIVETS. Diam.	RIVETS. Spacing cr. to cr.	STRAPS. Breadth.	STRAPS. Thickness.	IF LAPPED. Breadth.	IF LAPPED. For what Length.
		Inches.	Inches.	Inches.		Inches.	Inches.	Inches.	~~Either~~ 20ths.	Inches.	Feet.
Flat Plate Keel					T full L	7/8	3 1/8			9	Full
Garboard or A Strake	double	5 1/2	7/8	3 2/3	T 1/2 L	3/4	2 5/8			7 1/2	Full
B "	"	4 1/2	3/4	3 1/4	" " "	"	"			"	"
C "	"	"	"	"	" " "	"	"			"	"
D "	"	"	"	"	" " "	7/8	3 1/8			9	"
E "	"	"	"	"	" " "	3/4	2 5/8			7 1/2	"
F "	"	"	"	"	" " "	"	"			"	"
G "	Single	2 1/2	"	"	" " "	7/8	3 1/8	16 3/4	14		
Sheer H "	double	5 1/2	7/8	3 2/3	" " "						

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 Colville Steel Co of Scotland. Glasgow Iron & Steel Co. Lanarkshire Mossend.

Has the Steel been tested as required by the Rules Yes

Main Stringer Plate Butts, treble riveted for 1/2 length amidship. Straps, ~~single, double or~~ overlapped for full length ~~amidship~~

Butts of Bilge & Side Stringers, and Tie Plates, treble or double riveted? D & S

Inner Bottom Plating, riveting of **Edges** ✓ **Butts** ✓

Centre Girder Butts, ✓ riveted. **Keelson Butts,** Treble riveted.

Frames, riveted through Plates with 3/4 in. Rivets, about 5 apart.

Rivets, state whether of Iron or Steel Iron

FRAMES extend in one length from Keel to Gunwale state if ordinary or joggled Ordinary

REVERSED FRAMES on floors and frames extend from centre to side stringer and deck alternately state if ordinary or joggled Ordinary

all to deck in way of Hopper

MASTS, SPARS, &c.

	Material.	Total length.	Diameter and Thickness. At Partners.	Heel.	Hounds.	Head.	No. of Plates in round.	Angles. Number.	Angles. Size.	Riveting. Seams.	Riveting. Butts.
Lower Masts. Fore Pole	P. Pine	43.0	10								
Main ✓											
Mizen ✓											
Bowsprit ✓											

Topmasts, Yards and Remainder of **Spares** ✓

Rigging, Material and Size, **Shrouds** Galvd steel wire 2" **Stays** 2 1/4

Sails. One Suit of Sails and the following spare sails ✓

Equipment No. 11418 Letter j. Tonnage U.Dk. or Plating No. for Trawlers

ANCHORS.

Number of Certificate.	Anchors.	Weight, Ex Stock Cwts.	qrs.	lbs.	Weight of Stock. Cwts.	qrs.	lbs.	Test, per Certificate. Tons.	Cwts.	qrs.	lbs.	Weight Required by Table 22. Cwts.	qrs.	lbs.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
462	1st Bower ..	17	1	7	Stockless			18	10	2	14	16	3	0	Byers Patent Stockless	W. C. Byers & Co	Sunderland 17.10.01 Welford
463	2nd " ..	17	0	14	"			18	6	3	14	16	3	0	" " "	" " "	" 21.10.01 "
476	3rd " ..	14	2	7	"			16	3	1	21	14	2	0	" " "	" " "	" 25.10.01 "
	Collective weight	49	0	0								48	0	0			
510	Stream	6	0	0	Stockless			8	5	0	0	6	0	0	" " "	" " "	" 7.9.01 "
253	Kedge	3	2	14	"			6	0	3	21	3	0	0	" " "	" " "	

Certificates of Tests for Cast Steel anchor Heads produced

If Stockless, state Mechanical Tests. If Patent state Name of Patentee.

CHAIN CABLES.

Number of Certificate.	Length and size supplied. Length. Fathoms.	Diam. Ins.	Test per Certificate. Statutory. Tons.	Breaking. Tons.	Weight of Chain Cable. Supplied. Cwts. qrs. lbs.	Per Table 22. Cwts. qrs. lbs.	Length & Size per Table 22. Length. Fathoms.	Diam. Ins.	Description.	Makers of Cables.	When and where tested and Superintendent
33299	105 1/2	1 5/16	81	46 1/2	96.0.0	168.0.0	210	1 5/16	Stud link	J.P. Jones & Co	4.11.01 Hetherton's Yard
35282	105 1/2	1 5/16	81	46 1/2	91.2.0					Not Stated	30.10.01 " "
32312					187.2.0						
Iron Stream Chain or Steel Wire	60 1/2	13/16	7 3/10	16 4/5	22.2.0	22.0.11	60	13/16	Short link	J.P. Jones & Co	25.10.01 " "

HAWSERS AND WARPS.

Material.	Length and Size supplied. Length. Fathoms.	Cir. Ins.	Breaking Test of Steel Wire Towline. Tons.	Length and Size per Table 22. Length. Fathoms.	Cir. Ins.
Towline Manilla	120	7	✓	120	7
Hawsers & Warps	120	7	✓	120	7
" "	120	5	✓	120	5
" "	120	5	✓	120	5
	120	4	✓	120	4

Length & Size per Table 22 approved

Boats One Life Boat & one other

Pumps, Number Two Diameter of Barrel 4 1/2 State whether they are in efficient working order yes

Windlass is by G & J. McOnie **Capstan** by Alley Macllellan

Engine Room Skylights.—How constructed? of Teak

What arrangements for deadlights in bad weather? Teak flaps & bullseyes

Coal Bunker Openings.—How constructed? Plates & angles How are lids secured? Battened down Height above deck? 15"

Number of **Scuppers,** and number and dimensions of **Freeing Ports, &c.** None

Ceiling in Holds, thickness and material ✓ **Cargo Battens,** thickness and material ✓

Cargo Hatchways.—How formed? None **Hatches.**—If strong and efficient? ✓

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 ✓

No. of Breasthooks Four **No. of Crutches** 1 at beep floors

Bulwarks. height above deck and description Open Rails & stanchions 3'-4" Main Rail and Stays, material and size Elm 8"x4"

The above is a correct description. Fleming & Ferguson, Ltd.

Builder's Signature (here only). P. J. Ferguson Managing Director

Surveyor's Signature J.P. Mares. Allison B. Wilson

Surveyor to Lloyd's Register of British and Foreign Shipping.

Form No. 1A.

Correspondence.—State dates and initials of letters respecting this case (*Reference should be made to any correspondence connected with the case*) M 1-3-01 P 7.6.01

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)? ~~No gutterways~~ State results of tests ✓

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

This vessel has been built in accordance with the approved plans, the Secretary's letters of the above dates and in general conformity to the Rules for the Class contemplated

accompanying this Report Plans of Midship Section. Profile & Deck Plan, and two reports on Ship Forgings

This is a sister vessel to the No 20 & No 21 G.S. Reports 19180 & 19355

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. or Break ✓ ft., Bridge Dk. ✓ ft., F'castle 21 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 (Sd. WS)

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

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

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors ✓

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 ✓		
Double bottom, if under Boilers only, ✓			Deep tank, forward ✓		
Double bottom, forward, ✓			Other tanks, if fitted, ✓		

(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 ✓

Order for Special Survey No. 345 Date 6/3/01. No. 301 in builder's yard.

Dates of Surveys held while building: 1901:- Apr. 24. May 1. 10. 27. 31. Jn. 12. 19. 21. 28. Aug. 1. 7. 23. 27. Sep. 2. 3. 10. 13. 18. 27. 30. Oct 3. 9. 11. 17. 22. 24. 28. 30. Nov. 1. 4. 6. 8. 11. 13. 15. 18. 20. 25. 27. 29. Dec. 2. 6. 9. 11. 13. 16. 20. 26. 1902:- Jan 8. 10. 13. 14. 17. 24. 27. 29. Feby. 3. 5. 7. 10. 12. 17. 19.

Total No. of Visits 63.

The amount of Entry Fee ..... £ 3 : : Fees applied for, 27/1/1902

Special..... £ 31 : 18 : Received by me, 27/2/1902

Travelling Expenses, if any £ : :

Certificate to be sent to Glasgow

State whether the Vessel has been built under Special Survey Yes

I am of opinion this Vessel should be Classed + 100 A.1. "Hopper Barge"

~~Withy~~ without Freeboard, as condition of Class

J.P. Mares. Allison B. Wilson. Surveyor to Lloyd's Register of British and Foreign Shipping.

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

Committee's Minute Glasgow. 24 FEB. 1902

Character assigned + 100 A1 (Steel) "Hopper Barge" Lloyd's R. & C.

Area fee rec'd.

Hull Certificate, Written 24/2/02.

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