

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

# IRON OR STEEL STEAMER.

Received at London Office 12566

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

Date of completion of Report 14<sup>th</sup> November 1893  
Date, First Survey May 4<sup>th</sup> 1893

Port of Glasgow  
Last Survey 12<sup>th</sup> November 1893  
Rig

No. 12566 Survey held at  
On the Steel Tackle Steamer Hutton

TONNAGE under  
Tonnage Deck... 374.84

Do. of Poop  
Do. of Raised Qr. 177.94

Do. of Break...  
Do. of Forecastle

Do. of Houses on Deck  
Do. of Hatchways

Do. of Engine Room  
Do. of Crew Space

Do. of Navigation Spaces  
Less Engine Room 554.12

Less Navigation Spaces 266.90

Register Tonnage 256.31

as put on Beam ...

ONE OR TWO DECKED VESSEL.

CLASS "A.1. steel"  
"for Woolwich Ferry Purposes."

FEET.

Half Breadth (moulded) 21.0

Depth from upper part of Keel to top of Main Deck Bms. 7.75

Girth of Half Midship Frame (as per Rule) 26.6

1st Number 55.35

Length 169.166

2nd Number 9363.33

Proportions—Breadths to Length 4.02

Depths to Length—Main Deck to top of Keel 21.8

Destined Voyage London

Master Captain Rhue

Year of appointment (1) As master in service of owner of present vessel:—18  
(2) As master of this vessel:—1893

Built at Renfrew

When built 1893 Launched 11<sup>th</sup> October 1893

By whom built Messrs W. Simons & Co.

Owners London County Council

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

Residence

Port belonging to London

If Surveyed while Building, Afloat, or in Dry Dock while building afloat.

LENGTH on Deck Feet. Inches. 169 2  
BREADTH—Feet. Inches. 42 0  
DEPTH—Feet. Inches. 6 6  
Power of Engines 95  
Horse. 95  
No. of Decks with Flat laid one  
No. of Tiers of Beams one

Dimensions of Ship per Register, Length, 170 breadth, 42.1 depth, 6.5 Moulded Depth, ft. 7 ins. 3 Round of Beam 6 inches.

FRAMING.		Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	20ths per Rule Or as Approved.
SAME, Angles, 1/2" x 1/2" Bars, for 1/2 length amidships throughout machinery space		3 1/2	3	7	3 1/2	3	7
" for 1/2 at each end		3	3	6	3	3	6
in way of Double Bottoms at Solid Floors							
at intermdt. Blts							
Distance of Frames from moulding edge to moulding edge, all fore and aft		24			24		
REVERSED FRAME, Angles		2 1/2	2 1/2	6	2 1/2	2 1/2	6
DEEP FRAMING, depth of girder							
LOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships		15		6	15		6
" in way of Engines and Boilers				6			6
" thickness at the ends of vessel		13		5	13		5
" depth at 1/2 the half breadth, as per Rule		15			15		
" height extended at the Bilges		30			30		
FLOORS & BRACKETS, in Coll. Dble Bottoms							
Distance apart							
TRE GIRDER, in Double Bottom, depth and thickness							
Angles, Top							
Bottom							
SIDE GIRDERS, number and thickness							
Angles							
IN PLATE, depth (exclusive of flange) and thickness							
Angles							
BOTTOM PLATING, breadth and thickness of Middle Line Strake							
Thickness in Engine and Boiler space							
Remainder in Hold							
BEAMS, Main and Raised Quarter Deck, Angle, Bulb Angle, Plate on Tee Bulb, Angles on Upper Edge		9	9	8	9	9	9
Average space		48	2 1/2	7	48	2 1/2	7
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate on Tee Bulb, Angles on Upper Edge							
Average space							
BEAMS, Hold, Plate on Tee Bulb, Angles on Upper Edge							
Average space							
BEAMS, Poop Deck, Angle, Bulb Angle, Plate on Tee Bulb, Angles on Upper Edge							
Average space							
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate on Tee Bulb, Angles on Upper Edge		8	9	8	9	9	9
Average space		24	2 1/2	7	24	2 1/2	7
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate on Tee Bulb, Angles on Upper Edge							
Average space							
PLATES, In 'tween Decks, Size and Spacing							
Hold		3	48	3	48		
Quarter, 'tween Dks., in Hold							
MES, In Fore Body, No. and Spacing		9	9	9			
Brdth. & Thickness		12	6	12	6		
No. of Side Stringers		one		one			
MES, In E. & B. Space, No. & Spacing							
Brdth. & Thickness							
WEB FRAMES, In After Body, No. and Spacing		9	9	9			
Brdth. & Thickness		12	6	12	6		
No. of Side Stringers		one		one			
Size of Angles on Tee Bars to Web Frames		3	2 1/2	6	3	2 1/2	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	5" x 2"	5" x 2"
STEM, moulding and thickness	5" x 2"	5" x 2"
STERN-POST for Rudder do. do.	5" x 2"	5" x 2"
for Propeller	5" x 2"	5" x 2"
MAIN PIECE of Rudder, diameter at head do. at heel	3 1/2" 2"	3 1/2" 2"

RUDDER, how constructed Forged frame plated.  
Can the Rudder be unshipped afloat? Yes

## KEELSONS AND STRINGERS.

	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	20ths per Rule Or as Approved.
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate	19		7	19		7
Bulb Plate						
Bulb Plate to Intercoastal Keelson						
Longitudinal Plates on Floors	12	6	6	12	6	6
Angles	4	3	9	4	3	9
SIDE KEELSON, Angles 5" x 3" x 20 lbs.	3	3	6	3	3	6
and apart longitudinal thickness 1/2"						
Bulb Plate above floors for 9 1/2 ft. lng.	12		6	12		6
Longitudinal Plate for 9 1/2 ft. length						
Attached to outside plating with Angle						
BILGE KEELSON, Angles	5	3	9	5	3	9
Bulb or Plate above floors for 1 cm						
Intercoastal Plate for length						
Attached to outside plating with Angle						
BILGE STRINGER Angles	3	3	7	3	3	7
Bulb Plate for length						
Continuous Intercoastal Plate for 108 ft. length	15		6	15		6
Attached to outside plating with Angle	3	3	6	3	3	6
SIDE STRINGER Angles						
Bulb or Intercoastal Plate for lng.						
Attached to outside plating with Angle						

Main and Raised Quarter Deck Stringer Plate, breadth and thickness	42	6	42	6
Angle on ditto	3 x 3 x	7	3 x 3 x	7
Tie Plates fore & aft, outside Hatchways	8	5	8	5
Diagonal Tie Plates on Bms. No. of Pairs	8	5	8	5
Main Dk* Iron or Steel for 9 1/2 ft. lng.		5		5
R. Q. Dk* Iron or Steel for lng.				
Wood Deck, Material & thickness P. Pine	2 1/2		PP. 2 1/2	
Lower Deck Stringer Plate, breadth and thickness				
Angles on ditto, No.				
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 Deck Stringer Plate, brdth & thickness				
Angle on ditto				
Tie Plates				
Deck, Material and thickness 9 1/2 x 3 7/8				
Forecastle Deck Stringer Plate, brdth & thickness				
Angle on ditto				
Tie Plates				
Deck, Material and thickness				

BULKHEADS.		Number.	Thickness.	STIFFENERS.			Single or Double Frames.	Height up.
In Vessel.	Per Rule.		20ths in Ship.	Horizontal.	Vertical.	Spacing.		
				Inches.	Inches.	Inches.		
W.T. BULKHEADS	6	6	9/16	3 1/2 x 3 1/2	30		None to deck	
PARTITION								
LONGITUDINAL	Two		9/16	3 1/2 x 3 1/2	24			

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



12566 gls.

PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.			BUTTS.									
	AMIDSHIP.		FORWARD.		AFT.	AMIDSHIP.		Single or Double.	Breadth of Lap.	RIVETS.		Double or Treble and for what Length.	RIVETS.		STRAPS.		IF LAPPED.		
	Breadth.	Thickness.	Thickness.	Thickness.		Breadth.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	Breadth.	Thickness.	Breadth.	For what Length.	
FLAT PLATE KEEL .....	36	7	6	6	36	7	Double	4 1/2	3/4	3	Treble all	3/4	2 1/2	14 1/4	9				
GARBOARD OR A STRAKE ..	59	6	6	6	59	6	Upper single	2 1/4	5/8	2 1/2	"	5/8	2 1/8	12	7				
State actual thickness in way of Double Bottom.	53	6	6	6	53	6	Do	2 1/4	"	"	"	"	"	12	7				
B	54 1/2	6	6	6	54 1/2	6	Do	2 1/4	"	"	"	"	"	12	7				
C	43	6	6	6	43	6	Do	2 1/4	"	"	"	"	"	12	9				
D	50 1/2	6	6	6	50 1/2	6	Do	2 1/4	"	"	"	"	"	12	9				
E	38	7	6	6	38	7	Double	4 1/2	3/4	3	Double	3/4	2 1/2	9 3/4	7				
F	31	8	6	6	31	8	Double	4 1/2	3/4	3	Double	3/4	2 1/2	14 1/4	10				
G																			
H																			
J																			
K																			
L																			
M																			
N																			
O																			
P																			
Double of Flat Plate Keel																			
Length and thickness of Bilges																			
of Sheerstrakes																			
of Strake below																			
POOR 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.?										Main Stringer Plate (Butts, treble riveted for whole length amidship. Straps, single, double or overlapped for all length amidship.)									
Plates, outside Plating, &c.?										Butts of Bilge & Side Stringers, and Tie Plates, treble or double riveted. Treble & double									
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 1/4 apart.										Rivets, state whether of Iron or Steel. Iron									
FRAMES extend in one length from Keel to gunwale										REVERSED FRAMES on floors and frames extend from Centre line to gunwale on every frame throughout machinery space and alternately to gunwale and upper turn of bilge before and abaft.									
MASTS, SPARS, &c.										MASTS, SPARS, &c.									
Material. Total length. DIAMETER AND THICKNESS. At Partners. Heel. Hounds. Head. No. of Plates in round. ANGLES. Number. Size. Seams. Riveting. Butts.										Material. Total length. DIAMETER AND THICKNESS. At Partners. Heel. Hounds. Head. No. of Plates in round. ANGLES. Number. Size. Seams. Riveting. Butts.									
LOWER MASTS .... Fore ..... Main ..... Mizzen.....										BOWSPRIT									
Topmasts, Yards and Remainder of Spars										Rigging, Material and Size, Shrouds									
Sails. Suit of										Sails and the following spare sails									
EQUIPMENT No. LETTER TONNAGE FOR TRAWLERS U.Dk. Secretary's Letter dated 20/10/93										ANCHORS.									
Number of Certificate. Anchors. WEIGHT, EX STOCK. WEIGHT OF STOCK. TEST, PER CERTIFICATE. WEIGHT REQ. BY RULE. Description of Anchor. Makers. Where and when tested and Superintendent.										Number of Certificate. Anchors. WEIGHT, EX STOCK. WEIGHT OF STOCK. TEST, PER CERTIFICATE. WEIGHT REQ. BY RULE. Description of Anchor. Makers. Where and when tested and Superintendent.									
34119 1st Bower .. 8 0 18 2 0 24 10 7 2 0 8 0 0 Ordinary N. Hingley & Co. 11/9/93										13232 3rd .. 10 1 14 stockless 12 6 2 7 Taylors Cast Steel H. Wood & Co. Lipton 3/3/91. E.R. Smith									
Collective weight										Stream ....									
Kedge .....										2nd Kedge ..									
CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate. Fathoms. Size. Test per Certificate. Tons. Supplied. Per Rule. Fathoms and Size Per Rule. Description. Makers of Cables. When and where tested, and Superintendent. Material. Fathoms. Size. Breaking Test of Steel Wire Towline. Fathoms and Size Per Rule.										Number of Certificate. Fathoms. Size. Test per Certificate. Tons. Supplied. Per Rule. Fathoms and Size Per Rule. Description. Makers of Cables. When and where tested, and Superintendent. Material. Fathoms. Size. Breaking Test of Steel Wire Towline. Fathoms and Size Per Rule.									
22747 90. 4 1/2 1 10. 27 48. 1.5 46. 0.0 90 1/2 1 stockless N. Hingley & Co. 11/9/93										22748 60. 4 1/2 3/4 13 1/2 19. 2.3 18. 3.5 60. 3/4 stockless N. Hingley & Co. 11/9/93									
Boats (Two for the passage from Glasgow to London only)										Pumps, Number Four Diameter of Barrel and Tail Pipe 5" barrels 2 1/2" tail pipes									
Windlass is Clarke Chapman										Capstan									
Engine Room Skylights.—How constructed? Trunk casings from main to Bridge deck										What arrangements for deadlights in bad weather? with windows in sides									
Coal Bunker Openings.—How constructed? Steel trunks from Bridge to M. O.K. How are lids secured? wood hatch Height above deck? flush on Bridge										Number of Scuppers, and number and dimensions of Freeing Ports, &c.									
Ceiling in Holds, thickness and material 2" P.P. flat lead & caulked Ceiling 'tween Decks, thickness and material										Gangway Hatchways.—How formed? Plating in way of Cabins only Hatches.—If strong and efficient? Leak Compans									
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									
Bulwarks, height above deck and description Steel plates 3' 0"										No. of Breasthooks Two No. of Crutches one & deep floors									
The above is a correct description.										Main Rail, material and size Teak 7 x 2 1/2"									
Builder's Signature (here only) Wm Simons Day										Surveyor's Signature Charles Edwards									
										Surveyor to Lloyd's Register of British and Foreign Shipping.									



12566 Jls

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with the case) 27<sup>th</sup> Apl 1893 (M)

11<sup>th</sup> Aug 1893 (E) 26<sup>th</sup> Oct 1893 (M) 26<sup>th</sup> Dec 1892 (M).

Workmanship. Are the butts of the 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

to plate, &c, conform well to each other? Yes

from the faying surfaces? Yes

Do any rivets break into or through the seams or butts of the plating? a few only

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

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

Workmanship and materials very good throughout. This is a paddle steel steamer constructed in accordance with the approved sketches forwarded with this report, the approved midship section sent to London on the 18<sup>th</sup> Oct 1893 and Secretary's letters of the above dates. She is intended for Ferry purposes at Woolwich.

The fore and after peak compartments were filled with water and proved satisfactory. Sluice valves and deck pumps satisfactory.

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. 58 ft., F'castle — 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) One deck P. Pine, one tier beams

Official No. ; Signal Letters

How are the surfaces preserved from oxidation? Inside Cement and paint Outside Paint & black Varnish

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system.

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	✓	✓	Fore peak tank,	✓	✓
Double bottom, forward,	✓	✓	After peak tank,	✓	✓
Double bottom, under Engines and Boilers,	✓	✓	Midship deep tank,	✓	✓
Double bottom, if under Engines only,	✓	✓	Other tanks, if fitted,	✓	✓
Double bottom, if under Boilers only,	✓	✓	(If necessary, furnish further information by sketch.)		

State whether the above have been tested as required by the Rules.

Order for Special Survey No. 2681

Date 11<sup>th</sup> May 1893

Order for Ordinary Survey No. ✓

Date

No. 316 in builder's yard

DATES of Surveys held while building as per Section 18.

- 1st. On the several parts of the frame, when in place, and before the plating was wrought
- 2nd. On the plating during the process of riveting
- 3rd. When the beams were in and fastened and before the decks were laid
- 4th. When the ship was complete, and before the plating was finally coated or cemented
- 5th. After the ship was launched and equipped

1893:—May 4, 10, 24, 26, 31, June 7, 15, 16, 19, 26, July 3, 4, 10, 28, Aug 2, 8, 14, 16, 22, 24, Sep 5, 15, 21, 26, 28, Oct 5, 9, 11, 16, 18, Nov 7, 9, 13

Total No. of Visits 33

The amount of Entry Fee .....£ 3 : " : "

Special.....£ 26 : " : "

Certificate\* £ " : " : "

Travelling Expenses, if any £ " : " : "

Fees applied for,

15/11/1893

Received by me,

28/11/1893

\* Certificate to be sent to

Glasgow

I am of opinion this Vessel should be Classed

A1 "Steel" For Woolwich Ferry Purposes

With, or without Freeboard, as condition of Class

Freeboard not condition of class.

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

Charles Edwards

Committee's Minute

Character assigned

FRI 17 NOV 1893

A1 Steel For Woolwich Ferry purposes 1 Dh (pk. Stl.)

This Vessel appears to have been built in accordance with the Rules and the approved plans, and it is submitted she is eligible to be classed A1 ("Steel") For Woolwich Ferry purposes as recommended.

A1 ("Steel") For Woolwich Ferry purposes 1 Dh (pk. Stl.) F.R.

Lloyd's Register Foundation

Hull Certificate. Written.

GLS168-0238 (2/2)