

No. 12566

REPORT ON MACHINERY.

THURS. 18 NOV 1893

Port of Glasgow

Received at London Office

No. in Survey held at Renfrew

Date, first Survey 29th May

Last Survey 17th Nov 1893

on the P. S. "Hutton" (Woolwich Ferry)

(Number of Visits 15)

Tons { Gross 534
Net 256

Master Rhue Built at Renfrew By whom built Simons & Co

When built 1893

Engines made at Renfrew By whom made Simons & Co when made 1893

Boilers made at Renfrew By whom made Simons & Co when made 1893

Registered Horse Power 600 95 Owners London County Council Port belonging to London

Horse Power as per Section 28

ENGINES, &c. — Description of Engines Simple expansion diagonal No. of Cylinders two pairs
 Diameter of Cylinders 33" Length of Stroke 36" Revolutions per minute padle as per rule simple
 Diameter of Tunnel shaft None Diameter of Crank shaft journals 9" Diameter of Crank pin 9" Size of Crank webs 7 x 11
 Diameter of Wheel 14 1/2" Pitch of screw — No. of floats 8 State whether moveable yes Total surface each wheel 126
 No. of Feed pumps independent Diameter of ditto — Stroke — Can one be overhauled while the other is at work —
 No. of Bilge pumps independent Diameter of ditto — Stroke — Can one be overhauled while the other is at work —
 No. of Donkey Engines four Sizes of Pumps three of 3 1/2 x 5, one 4 x 5 No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room two inch, two in each stokehold Holds, &c. via 2"

No. of bilge injections two sizes 3 1/2 Connected to condenser, or to circulating pump via Is a separate donkey suction fitted in Engine room & size one 2"
 Are all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible none
 Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the discharge pipes above or below the deep water line above
 Are they each fitted with a discharge valve always accessible on the plating of the vessel yes Are the blow off cocks fitted with a spigot and brass covering plate yes
 What pipes are carried through the bunkers none How are they protected —
 Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times yes
 Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges yes
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock before launching Is the screw shaft tunnel watertight none
 Is it fitted with a watertight door — worked from —

BOILERS, &c. — (Letter for record S) Total Heating Surface of Boilers 2644
 No. and Description of Boilers Two Navy type Working Pressure 40 lbs Tested by hydraulic pressure to 80 lbs
 Date of test 14/9/93 Can each boiler be worked separately yes Area of fire grate in each boiler 45 No. and Description of safety valves to
 each boiler two spring Area of each valve 15.9 Pressure to which they are adjusted 40 lbs Are they fitted
 with easing gear yes Smallest distance between boilers or uptakes and bunkers or woodwork stand clear Mean diameter of boilers 108
 Length 17' 3" Material of shell plates Steel Thickness 7/16 Description of riveting: circum. seams lap 1 Rivet long. seams Lap 2 Rivets
 Diameter of rivet holes in long. seams 13/16 Pitch of rivets 3" Lap of plates or width of butt straps 3 3/4
 Per centages of strength of longitudinal joint 67 Working pressure of shell by rules 76.5 Size of manhole in shell 12 x 16
 Size of compensating ring 5" x 1/2" No. and Description of Furnaces in each boiler two flanged Material Steel Outside diameter 43"
 Length of plain part top 3 1/2" bottom 3 1/2" Thickness of plates top 3/8" bottom 3/8" Description of longitudinal joint welded No. of strengthening rings one
 Working pressure of furnace by the rules 91 Combustion chamber plates: Material Steel Thickness: Sides 7/16 Back none Top 7/16 Bottom 7/16
 Pitch of stays to ditto: Sides 9 1/8 x 9 1/2 Back 9 1/8 x 9 1/2 Top 9 1/8 x 9 1/2 If stays are fitted with nuts or riveted heads nut heads Working pressure by rules 47 1/2
 Material of stays iron Diameter at smallest part 61 Area supported by each stay 91.3 Working pressure by rules 40 End plates in steam space:
 Material Steel Thickness 7/8 Pitch of stays 15" How are stays secured double nuts & washers Working pressure by rules 82 Material of stays Iron
 Diameter at smallest part 2.37 Area supported by each stay 225 Working pressure by rules 79 Material of Front plates at bottom Steel
 Thickness 7/8 Material of Lower back plate Steel Thickness 7/16 Greatest pitch of stays 12" Working pressure of plate by rules 118
 Diameter of tubes 3" Pitch of tubes 4" Material of tube plates Steel Thickness: Front 7/16 Back 7/16 Mean pitch of stays 12
 Pitch across wide water spaces 12" Working pressures by rules 118, 101 Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 9 x 2 1/2 x 7/8 Length as per rule 47 Distance apart 9 1/4 Number and pitch of Stays in each 4 x 9 1/2
 Working pressure by rules 69 Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked
 separately — Diameter — Length — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet
 holes — Pitch of rivets — Working pressure of shell by rules — Diameter of flue — Material of flue plates — Thickness —
 If stiffened with rings — Distance between rings — Working pressure by rules — End plates: Thickness — How stayed —
 Working pressure of end plates — Area of safety valves to superheater — Are they fitted with easing gear —

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Lloyd's Register Foundation GLS168 0239

12566 g/s

DONKEY BOILER— Description *None*

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure tested by hydraulic pressure to _____ No. of Certificate _____ Fire grate area _____ Description of safety valves _____

No. of safety valves _____ Area of each _____ Pressure to which they are adjusted _____ If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler _____

Diameter of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____

Description of riveting long seams _____ Diameter of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____

Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Thickness of shell crown plates _____ Radius of do. _____ No. of Stays to do. _____

Dia. of stays _____ Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace plates _____ Description of joint _____ Thickness of furnace crown plates _____ Stayed by _____ Working pressure of shell by rules _____

Working pressure of furnace by rules _____ Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____

SPARE GEAR. State the articles supplied:— *As required by the Rules.*

The foregoing is a correct description, Manufacturer.

Wm Simons & Co

General Remarks (State quality of workmanship, opinions as to class, &c. *These engines and boilers were built under the conditions of Special Survey and have been securely fitted on board and satisfactorily tested steam.*

In my opinion this vessel is eligible for the record + L.M.C. 11.93.

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 11.93

Sub
16/11/93

MACHINERY CERTIFICATE
Certificate (if required) to be sent to *Glasgow*

The amount of Entry Fee.. £ 1 : " : " When applied for.

Special £ 14 : 5 : " 15/11/93

Donkey Boiler Fee £ " : " : " When received.

Travelling Expenses (if any) £ " : " : " 28/11/93

C. H. Meyer
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute " FRI 17 NOV 1893
Assigned + L.M.C. 11.93

