

REPORT ON MACHINERY.

Port of *Greenock*

Received at London Office 28. 31 MAY 1894

No. in Survey held at *Port Glasgow & Greenock* Date, first Survey *June 7th 1893* Last Survey *23rd May 1894*
 Reg. Book. *Supplement* (Number of Visits *104*)
45 on the *Screw Steamer "Strathguy"*
 Master *R. McKeirnie* Built at *Greenock* By whom built *Russell & Co.*
 Engines made at *Port Glasgow* By whom made *Blackwood & Gordon* when made *1894*
 Boilers made at *do* By whom made *do do* when made *1894*
 Registered Horse Power *353* Owners *Russell & Co.* Port belonging to *Glasgow*
 Nom. Horse Power as per Section 28 *347*

ENGINES, &c.— Description of Engines No. of Cylinders
 Diameter of Cylinders Length of Stroke Revolutions per minute Diameter of Screw shaft as per rule as fitted
 Diameter of Tunnel shaft as per rule as fitted Diameter of Crank shaft journals Diameter of Crank pin Size of Crank webs
 Diameter of screw Pitch of screw No. of blades State whether moveable Total surface
 No. of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
 No. of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
 No. of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room In Holds, &c.

No. of bilge injections sizes Connected to condenser, or to circulating pump Is a separate donkey suction fitted in Engine room & size
 Are all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible
 Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the discharge pipes above or below the deep water line
 Are they each fitted with a discharge valve always accessible on the plating of the vessel Are the blow off cocks fitted with a spigot and brass covering plate
 What pipes are carried through the bunkers How are they protected
 Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times
 Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock Is the screw shaft tunnel watertight
 Is it fitted with a watertight door worked from

BOILERS, &c.— (Letter for record *Donkey Boiler* Total Heating Surface of Boilers
 No. and Description of Boilers *Round Horizontal Multitubular* Working Pressure *100 lbs* Tested by hydraulic pressure to *200 lbs*
 Date of test *23.1.94* Can each boiler be worked separately Area of fire grate in each boiler *30 ft* No. and Description of safety valves to
 each boiler *Two Direct Spring* Area of each valve *4.9 in* Pressure to which they are adjusted *100 lbs* Are they fitted
 with easing gear *yes* Smallest distance between boilers or uptakes and bunkers or woodwork *11* Mean diameter of boilers *9.6*
 Length *9.0* Material of shell plates *Steel* Thickness *5/8* Description of riveting: circum. seams *Lap double* long. seams *Double*
 Diameter of rivet holes in long. seams *7/8* Pitch of rivets *3 5/8* Lap of plates or width of butt straps *9" straps*
 Per centages of strength of longitudinal joint rivets *78.8* Working pressure of shell by rules *106 lbs* Size of manhole in shell *16" x 12"*
 Size of compensating ring *29 x 26 x 1* No. and Description of Furnaces in each boiler *Two plain* Material *Steel* Outside diameter *34"*
 Length of plain part top *6.7* Thickness of plates crown *3/2* Description of longitudinal joint *Welded* No. of strengthening rings *none*
 bottom *5.2* bottom *3.2* Working pressure of furnace by the rules *110 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *1/2* Back *1/2* Top *1/2* Bottom *5/8*
 Pitch of stays to ditto: Sides *8" none* Back *8 x 8* Top *7" none* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *120 lbs*
 Material of stays *Steel* Diameter at smallest part *1 1/8* Area supported by each stay *64* Working pressure by rules *119 lbs* End plates in steam space:
 Material *Steel* Thickness *1/16* Pitch of stays *14 x 14* How are stays secured *Double nut* Working pressure by rules *108 lbs* Material of stays *Steel*
 Diameter at smallest part *1 1/8* Area supported by each stay *196 1/4* Working pressure by rules *124 lbs* Material of Front plates at bottom *Steel*
 Thickness *1/16* Material of Lower back plate *Steel* Thickness *9/16* doubling at wider space *1/2* Greatest pitch of stays *12 1/2* Working pressure of plate by rules *146 lbs*
 Diameter of tubes *3"* Pitch of tubes *4 1/4 x 4 1/8* Material of tube plates *Steel* Thickness: Front *1/16* 1/2" Back *1/16* Mean pitch of stays *10.62*
 Pitch across wide water spaces Working pressures by rules *113 lbs* Girders to Chamber tops: Material *Steel* Depth and
 thickness of girder at centre *5" x 5 1/2" double* length as per rule *20* Distance apart *7* Number and pitch of Stays in each *one 7"*
 Working pressure by rules *113 lbs* Superheater or Steam chest; how connected to boiler 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

DONKEY BOILER— Description

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 :—

The foregoing is a correct description,

Blackburn & Sons Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c.)

Donkey

Certificate (if required) to be sent to

Greenock Office

The amount of Entry Fee..	£ 3 :	:	When applied for,
Special	£ 37 :	7 :	25-5-1894
Donkey Boiler Fee	£ :	:	When received,
Travelling Expenses (if any) £	:	:	1.6-1894

A. B. Heron
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.
Greenock District

Committee's Minute **FRI 1 JUN 1894**

Assigned



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 Foundation