

# REPORT ON MACHINERY.

1120

Port of *Greenock.*

TUES. 6 NOV 1894

Received at London Office

18

No. in Survey held at *Port Glasgow* Date, first Survey *August 3* Last Survey *August 22* 1894

Reg. Book. *S.S. "Bessie Barr"* (Maiden voyage *11.12.5*) (Number of Visits *6*)

Master *S.S. "Bessie Barr"* Built at *Port Glasgow* By whom built *McAlister & Murray* When built *1894*

Engines made at *Glasgow* By whom made *McAlister & Houston* when made *1894*

Boilers made at *do* By whom made *do do* when made *1894*

Horse Power Owners *R. B. Ballantyne & Coy.* Port belonging to *Glasgow*

Power as per Section 28

S, &c.—	Description of Engines	No. of Cylinders
Cylinders	Length of Stroke	Revolutions per minute
Tunnel shaft	Diameter of Crank shaft journals	Diameter of Crank pin
Pitch of screw	Pitch of screw	No. of blades
ed pumps	Diameter of ditto	Stroke
ge pumps	Diameter of ditto	Stroke
Monkey Engines	Sizes of Pumps	No. and size of Suctions connected to both Bilge and Donkey pumps
Room		In Holds, &c.

bilge injections sizes Connected to condenser, or to circulating pump Is a separate donkey suction fitted in Engine room & size

the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

connections with the sea direct on the skin of the ship *yes* Are they Valves or Cocks *both*

ly 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

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*

pipes are carried through the bunkers How are they protected

pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times

bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges

ere stern tube, propeller, screw shaft, and all connections examined in dry dock *yes* Is the screw shaft tunnel watertight

ted with a watertight door worked from

ERS, &c.—	(Letter for record)	Total Heating Surface of Boilers
Description of Boilers	Working Pressure	Tested by hydraulic pressure to
test	Can each boiler be worked separately	Area of fire grate in each boiler
ler	Area of each valve	Pressure to which they are adjusted
ing gear	Smallest distance between boilers or uptakes and bunkers or woodwork	Mean diameter of boilers
er of rivet holes in long. seams	Material of shell plates	Thickness
ages of strength of longitudinal joint	Pitch of rivets	Description of riveting: circum. seams
compensating ring	Working pressure of shell by rules	Size of manhole in shell
of plain part	No. and Description of Furnaces in each boiler	Material
ing pressure of furnace by the rules	Thickness of plates	Description of longitudinal joint
of stays to ditto: Sides	Combustion chamber plates: Material	Thickness: Sides
al of stays	Back	Top
al	Top	Bottom
er at smallest part	Diameter at smallest part	Area supported by each stay
ess	Thickness	Pitch of stays
er of tubes	Area supported by each stay	Working pressure by rules
across wide water spaces	Material of Lower back plate	Thickness
ss of girder at centre	Greatest pitch of stays	Working pressure of plate by rules
ing pressure by rules	Material of tube plates	Thickness: Front
ely	Pitch of tubes	Back
ed with rings	Working pressures by rules	Girders to Chamber tops: Material
Working pressure of end plates	Length as per rule	Distance apart
	Superheater or Steam chest; how connected to boiler	Number and pitch of Stays in each
	Diameter	Length
	Thickness of shell plates	Material
	Pitch of rivets	Working pressure of shell by rules
	Distance between rings	Working pressure by rules
	Area of safety valves to superheater	Are they fitted with casing 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 boiler's 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,  
 Manufacturer.

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

*Examined Stern frame boss bored for stern tube & the tube fastened in place. Screw shaft shipped and propeller securely fastened on tail end of shaft. And sea connections fitted on vessel's plating. The above mentioned parts of Machinery are now in good order and the vessel is to be towed to Glasgow to get Machinery and boiler fitted on board.*

Certificate (if required) to be sent to \_\_\_\_\_

The amount of Entry Fee..	£	:	:	When applied for,
Special .. .. .	£	:	:	.....18.....
Donkey Boiler Fee .. .. .	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:	.....18.....

TUES. 6 NOV 1894

*A. C. Heron*  
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

*Greenock District*

Committee's Minute

Assigned



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