

REPORT ON MACHINERY.

1120

Port of *Greenock.*

TUES. 6 NOV 1894

Received at London Office

18

No. in Survey held at *Port Glasgow*
Reg. Book.Date, first Survey *August 3rd* Last Survey *August 22nd 1894*(Number of Visits *6*)

on the

S.S. "Bessie Barr." (Maidenhead *1125*)Tons { Gross *407*
Net *163*

Master

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*when made *1894*

Horse Power

Owners *R. B. Ballantyne & Co.*Port belonging to *Glasgow*

Power as per Section 28

S, &c.—

Description of Engines

No. of Cylinders

Cylinders

Length of Stroke

Revolutions per minute

Diameter of Screw shaft

as per rule
as fitted

Tunnel shaft

as per rule
as fitted

Diameter of Crank shaft journals

Diameter of Crank pin

Size of Crank webs

Pitch of screw

Pitch of screw

No. of blades *Four*State whether moveable *no*

Total surface

ed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

ge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

Donkey 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*y 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

y 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 *launched* *before* 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

No. and Description of safety valves to

ler

Area of each valve

Pressure to which they are adjusted

Are they fitted

sing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean diameter of boilers

Material of shell plates

Thickness

Description of riveting: circum. seams

long. seams

er of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

tages of strength of longitudinal joint

rivets
plate

Working pressure of shell by rules

Size of manhole in shell

compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

of plain part

top
bottom

Thickness of plates

crown
bottom

Description of longitudinal joint

No. of strengthening rings

g pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

f stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

al of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

al

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

er at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

ess

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

er of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

ss of girder at centre

Length as per rule

Distance apart

Number and pitch of Stays in each

ng pressure by rules

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

ely

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

ched 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

GRK329-0129

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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,

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.....

Committee's Minute

Assigned

TUES. 6 NOV 1894

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



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