

# REPORT ON BOILERS.

No. 35880  
SAT.-8 APR. 1916

Received at London Office

ing Report

191 When handed in at Local Office

191 Port of

Glasgow

Survey held at

Glasgow

Date, First Survey

6/2/14

Last Survey

23/3/

1916

ched on the

H M S "Avenger"

(Number of Vistas

Gross

Tons

Net

Built at

Glasgow

By whom built

Fairfield Shipbuilding Co. Ltd. (499)

When built

made at

Glasgow

By whom made

Fairfield Shipbuilding Co. Ltd. (499)

When made

made at

Renfrew

By whom made

Balcock & Wilson Ltd. (229)

When made

1915

and Horse Power

Owners

Port belonging to

WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Balvill

or record

S

Total Heating Surface of Boilers

35080

Is forced draft fitted

Yes

No. and Description of

Boiler

Boiler Working Pressure

230

Tested by hydraulic pressure to

460

Date of test

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

108.2

No. and Description of

Pressure to which they are adjusted

235

Area of each valve

9.62

Pressure to which they are adjusted

235

fitted with easing gear

Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

—

distance between boilers or uptakes and bunkers or woodwork

18"

Mean dia. of boilers

3-6"

Length

16-10"

of shell plates

S

Thickness

9/16"

Range of tensile strength

26-30

Are the shell plates welded or flanged

—

of riveting: cir. seams

DR L

long. seams

27/32"

Diameter of rivet holes in long. seams

27/32"

Pitch of rivets

plates width of butt straps

7/8"

Per centages of strength of longitudinal joint

86.2

Working pressure of shell by

plate

45.2

Working pressure of shell by

plate

45.2

Working pressure of shell by

Size of manhole in shell

15"

Size of compensating ring

8"

No. and Description of Furnaces in each

8"

No. and Description of Furnaces in each

8"

No. and Description of Furnaces in each

8"

No. and Description of Furnaces in each

Material

Outside diameter

Length of plain part

Thickness of plates

Working pressure of furnace by the rules

Combustion chamber

Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Diameter at

Area supported by each stay

Working pressure by rules

End plates in steam space: Material

S

Thickness

13/16"

How are stays secured

Working pressure by rules

Material of stays

Diameter at smallest part

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

1 1/2"

Material of

Thickness: Front

Back

Mean pitch of stays

Pitch across wide

Working pressures by rules

Girders to Chamber tops: Material

Depth and thickness of

Length as per rule

Distance apart

Number and pitch of Stays in each

Superheater or Steam chest: how connected to boiler

Can the superheater be shut off and the boiler worked

Yes

Description of longitudinal joint

sold

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

S

Thickness

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Area of safety valves to superheater

3.14

Are they fitted with easing gear

Yes

The foregoing is a correct description,

Balcock & Wilson Limited

Manufacturer.

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

When applied for

19/2/

1916

When received

23/3/

1916

AL REMARKS

(State quality of workmanship, opinions as to class, etc.)

These boilers have been built

er Special Survey in accordance with the approved

the workmanship and material are of good quality

Report accompanies that of the Machinery.

See accompanying machinery report

GLASGOW - 8 APR. 1916

Engine Surveyor to Lloyd's Register of British and Foreign Shipping,

See accompanying machinery report

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