

REPORT ON BOILERS.

No. 38063.

Received at London Office

WED. 21 AUG. 1918

Writing Report

101

When handed in at Local Office

101

Port of

Glasgow.

Survey held at
Book.

Date, First Survey

22/5/18.

Last Survey

12. 8.

1918

(Number of Visits 11.)

Gross
Tons }
Net

on the

Built at

W.H.P.

By whom built

Swines S.B. 10 20 598

When built

Made at

Bartlepool

By whom made

Richardson Westgarth L^d. (2141)

When made

1918

Made at

Rugby

By whom made

Babcock & Wilcox L^d. (M 422)

When made

1918

Registered Horse Power

Owners

Port belonging to

L TITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

Bolton & Stuart & Lloyd

For record

S

Total Heating Surface of Boilers

8289 $\frac{1}{2}$

Is forced draft fitted

J. H. & S. H. & S. H.

No. and Description of

3 Babcock & Wilcox Marine

Working Pressure

180 $\frac{1}{2}$

Tested by hydraulic pressure to

Date of test

Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

84 $\frac{1}{2}$ $\frac{1}{2}$

No. and Description of

Valves to each boiler

7 in 10 in

Area of each valve

8.95

Pressure to which they are adjusted

They fitted with easing gear

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

Inside Steam Drum

Least distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

4.0

Length

13.3 $\frac{1}{2}$

Material of shell plates

S

Thickness

1 $\frac{1}{2}$ in

Range of tensile strength

26-30

Are the shell plates welded or flanged

Pitch of riveting: cir. seams

DR.

long. seams

DR. D.B.S.

Diameter of rivet holes in long. seams

2 $\frac{1}{2}$ in

Pitch of rivets

3 $\frac{3}{16}$ in

Pitch of plates or width of butt straps

4 in

Per centages of strength of longitudinal joint

rivets 47.5 %
plate 45.8 %

Working pressure of shell by

205.

Size of manhole in shell

15 x 11 in

Size of compensating ring

8 in 10 in

No. and Description of Furnaces in each

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber

Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Diameter at

Least part

Area supported by each stay

Working pressure by rules

End plates in steam space: Material

S

Thickness

13 $\frac{1}{16}$ in

How of stays

How are stays secured

Radus

Working pressure by rules

220

Material of stays

Diameter at smallest part

Supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of

Thickness

3 $\frac{1}{4}$ in

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

13.3 $\frac{1}{16}$ in

Pitch of tubes

2 $\frac{1}{8}$ x 2 $\frac{3}{4}$ in

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide

Working pressures by rules

Girders to Chamber tops: Material

Depth and thickness of

Working pressure by rules

Superheater or Steam chest: how connected to boiler

Can the superheater be shut off and the boiler worked

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

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

Survey request form

The foregoing is a correct description,

Babcock & Wilcox Limited.

Manufacturer.

No. attached

During progress of

work in shops

1918 May 22, 24, 30. June 10, 12, 14, 27. July 3, 5, Aug 2

Is the approved plan of boiler forwarded herewith

with 40 3766 A (Bain Supl. of)

During erection on

board vessel

12

Total No. of visits

11

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These boilers have been built under

Survey in accordance with the approved plans. The workmanship & material are of good quality.

The drums tested to 360 lb. The headers tested to 400 lb. The mud drums to 700 lb. These parts are being

fitted to Bartlepool at which port they will be erected on board & tested to 360 lb.

(Boiler erected in the ship previously to shipment) Dupl of M 381. G. R. 11. 3766 A

Survey Fee

...

£

:

:

When applied for,

191

Travelling Expenses (if any)

£

:

:

When received,

191

14 of Machinery Fee

to be credited to his office

Committee's Minute

Signed

TRANSMIT TO LONDON

GLASGOW. 20 AUG 1918

FRI. 17 JAN. 1919

W. Gordon Muir

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Lloyd's Register
Foundation

010563-010571-0280