

REPORT ON BOILERS.

No. 39025.

Received at London Office WED. 20 AUG 1919

of writing Report

191

When handed in at Local Office

15.6. 1919

Port of

GLASGOW.

to in Survey held at

Renfrew

Date, First Survey

Oct 8/1918. Last Survey Apr 11/ 1919.

7. Book.

on the three Babcock & Wilcox boilers for H.M. WAR TRENCH.

(Number of Visits)

Gross
Tons
Net

Built at

Cherston

By whom built

Finch & Co. Ltd. 364.

When built 1919.

Rivets

By whom made

When made

Plates

By whom made

Babcock & Wilcox (425)

When made 1919.

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

Stewart & Lloyd's
The Steel Coy. of Scotland

for record

S

Total Heating Surface of Boilers

8289 sq ft

Is forced draft fitted

Yes.

No. and Description of

Three Babcock & Wilcox

Working Pressure

180

Tested by hydraulic pressure to

360

Date of test

of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

84 1/2 sq ft

No. and Description of

y valves to each boiler

(Pair) Double Spring

Area of each valve

Pressure to which they are adjusted

they fitted with easing gear

Yes

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

least distance between boilers or uptakes and bunkers or woodwork

(Int.)

Mean dia. of boilers

Length

13'-3 1/2"

Material of shell plates

S

Thickness

1 1/2" + 1"

Range of tensile strength

28/32

Are the shell plates welded or flanged

No.

rip. of riveting: cir. seams

D.R. Lap. long. seams

T.R. S.B.S.

Diameter of rivet holes in long. seams

2 1/2"

Pitch of rivets

3 3/4"

of plates or width of butt straps

4"

Per centages of strength of longitudinal joint

rivets

44.5

Working pressure of shell by

2/0

Size of manhole in shell

15" x 11"

Size of compensating ring

23" x 28 3/4" x 7/8"

No. and Description of Furnaces in each

Material

Outside diameter

Length of plain part

Thickness of plates

crown

bottom

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

st part

Area supported by each stay

Working pressure by rules

End plates in steam space: Material

S

Thickness

13/16"

of stays

How are stays secured

Radius

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

back plate

S

Thickness

1 1/2"

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

13/16" + 3/16"

of tubes

2 5/8" x 2 1/4"

Material of tube plates

S

Thickness: Front

Back

Mean pitch of stays

tubes

Pitch across wide

spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and thickness of

at centre

Length as per rule

Distance apart

Number and pitch of Stays in each

ing 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

S

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

ed with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

ing 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,

No 2224. attached

Babcock & Wilcox Limited.

Manufacturer.

During progress of work in shops - 1918. Oct 8. 22. 25. 29. 31. Nov. 5. 7. 19.
 During erection on board vessel - 1919. Apr 11.
 Dec. 2. 6. 9.

Is the approved plan of boiler forwarded herewith

No. previously forwarded with H. Rpt. 34660

Total No. of visits

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

These boilers have been built

Special survey in accordance with the approved plans, the workmanship and materials are good. Steam drums tested to 360 lbs. Headers & tubes tested to 400 lbs. & the mud drums tested to 360 lbs. by hydraulic pressure. (Boilers erected in Shop previous to shipment). These parts are being shipped to Cherston at which port they will be erected on H.M. WAR TRENCH. These boilers are a duplicate of No. 381.

Fees

£17. 4/-

When applied for,

191

Traveling Expenses (if any)

£14/3/19

When received,

191

Paid by E. Finch to Glasgow Office.

(for Babcock & Wilcox).

H. H. H. H.

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

Committee's Minute GLASGOW 19 AUG 1919

TUE 30 DEC. 1919

TRANSMIT TO LONDON

