

REPORT ON BOILERS.

No. 36426

WED. FEB. 28. 1917

Received at London Office

of writing Report

191

When handed in at Local Office

191

Port of *Glasgow*

o. in Survey held at

Glasgow

Date, First Survey

Last Survey *16-2-1917*

Book.

(Number of Visits)

Gross Tons
Net

on the

T.S.S. Boxleaf

ter

Built at

Glasgow

By whom built

Barclay Curle & Co. Ltd. (539)

When built

1917

ines made at

Glasgow

By whom made

Barclay Curle & Co. Ltd. (539)

When made

1917

ers made at

Glasgow

By whom made

Barclay Curle & Co. Ltd. (539)

When made

istered Horse Power

Owners

Port belonging to

ULTITUBULAR BOILERS

~~MAIN, AUXILIARY OR DONKEY~~

Manufacturers of Steel

The Steel Co. of Scotland & Glasgow & Co. Ltd.

ter for record

(S) Total Heating Surface of Boilers *1528 7/8*

Is forced draft fitted

yes

No. and Description of

lers *1 single ended*

Working Pressure *215*

Tested by hydraulic pressure to *430*

Date of test *24/2/16*

of Certificate *13366*

Can each boiler be worked separately

Area of fire grate in each boiler *37 5/8*

No. and Description of

ty valves to each boiler

1 pair direct spring

Area of each valve *5.94*

Pressure to which they are adjusted *220*

they fitted with easing gear

yes

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

allest distance between boilers or uptakes and bunkers or woodwork *18"*

Mean dia. of boilers *12.0*

Length *11.0*

erial of shell plates *steel*

Thickness *1 3/4"*

Range of tensile strength *28 to 38*

Are the shell plates welded or flanged *no*

rip. of riveting: cir. seams *double lap*

long. seams *triple butt*

Diameter of rivet holes in long. seams *1 1/4"*

Pitch of rivets *8 3/4"*

of plates or width of butt straps *19 1/4"*

Per centages of strength of longitudinal joint

87.4

Working pressure of shell by

246

Size of manhole in shell *16" x 12"*

Size of compensating ring *10 1/2" x 1 1/2"*

10 1/2" x 1 1/2"

No. and Description of Furnaces in each

er *2 Monsons*

Material *steel*

Outside diameter *3.9 1/4"*

Length of plain part

top
bottom

Thickness of plates

crown
bottom

31
32

cription of longitudinal joint *welded*

No. of strengthening rings

Working pressure of furnace by the rules *236*

Combustion chamber

Material *steel*

Thickness: Sides *2 1/2"*

Back *2 1/2"*

Top *2 1/2"*

Bottom *1*

Pitch of stays to ditto: Sides *7 3/4" x 8 1/4"*

Back *7 3/4" x 8 1/4"*

31/7" x 7 3/4" x 8 1/4" stays are fitted with nuts or riveted heads *nuts*

Working pressure by rules *232*

Material of stays *steel*

Diameter at

11/11" largest part *1.73*

Area supported by each stay *63.9*

Working pressure by rules *216*

End plates in steam space: Material *steel*

Thickness *1 3/16"*

17 ch of stays *16 x 16 1/2*

How are stays secured *2 nuts*

Working pressure by rules *229*

Material of stays *steel*

Diameter at smallest part *6.67*

Area supported by each stay *264*

Working pressure by rules *262*

Material of Front plates at bottom *steel*

Thickness *3/32"*

Material of

er back plate *steel*

Thickness *12/32"*

Greatest pitch of stays *14 1/4"*

Working pressure of plate by rules *216*

Diameter of tubes *2 1/2"*

ch of tubes *3 3/4" x 3 5/8"*

Material of tube plates *steel*

Thickness: Front *3 1/2"*

Back *1 3/16"*

Mean pitch of stays *7 3/8"*

Pitch across wide

er spaces *13 1/2"*

Working pressures by rules *224*

Girders to Chamber tops: Material *steel*

Depth and thickness of

der at centre *11 x 32 double*

Length as per rule *2' 6 3/32"*

Distance apart *8 1/4"*

Number and pitch of Stays in each *(3) 7 3/4"*

Working pressure by rules *290*

Superheater or Steam chest: how connected to boiler *none*

Can the superheater be shut off and the boiler worked

separately

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

FOR BARCLAY, CURLE & CO., LTD.

The foregoing is a correct description,

Archibald McAlister

Director.

Manufacturer.

Dates

Survey

During progress of

work in shops - -

See attached report

Is the approved plan of boiler forwarded herewith *yes*

while

During erection on

board vessel - - -

Total No. of visits

GENERAL REMARKS

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

This boiler has been built under special survey, the materials & workmanship are of good description

Survey Fee

...

£

:

:

When applied for,

191

Travelling Expenses (if any) £

:

:

When received,

191

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

27 FEB. 1917

Assigned

See accompanying report

TUE. SEP. 25 1917.

TUE. NOV. 13 1917.

TUE. 28 MAY. 1918

FRI. 11 OCT. 1918

FRI. 3 JAN. 1919

WED. 7 AUG. 1918

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