

Rpt. 5a.

# Continuation REPORT ON BOILERS.

No. 39397

Received at London Office

Date of writing Report

191

When handed in at Local Office

191

Port of

Glasgow

WED. DEC. 10, 1919

No. in Survey held at

Glasgow

Date, First Survey

Last Survey

191

Reg. Book.

on the

T.S.S. WOODARRA

(Number of Visits)

Tons

Net

Master

Built at

Glasgow

By whom built

Barclay Curle &amp; Co. Ltd

When built

1919

Engines made at

Glasgow

By whom made

do

When made

1919

Boilers made at

do

By whom made

do

When made

1919

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY—

Manufacturers of Steel

Barclay Curle &amp; Co. Ltd

(Letter for record

S)

Total Heating Surface of Boilers

6036 ft<sup>2</sup>

Is forced draft fitted

Yes

No. and Description of

Boilers

Two Single ended

Working Pressure

Tested by hydraulic pressure to 350

Date of test

No. of Certificates

148/51

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

No. and Description of

safety valves to each boiler

2 Spring loaded

Area of each valve

9.62 sq. in.

Pressure to which they are adjusted

196 lb

Are they fitted with easing gear

Yes

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

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

16-13"

Length

11-9"

Material of shell plates

Steel

Thickness

1 15/32"

Range of tensile strength

28/32 tons

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

ap 10"

long. seams

T.R.D.B.S.

Diameter of rivet holes in long. seams

1 1/2"

Pitch of rivets

10 1/2"

Lap of plates or width of butt straps

22 1/2"

Per centages of strength of longitudinal joint

rivets 85.2

Working pressure of shell by

rules

207

Size of manhole in shell

16" x 12"

Size of compensating ring

35 1/2" x 28 1/2" x 1 1/2"

No. and Description of Furnaces in each

boiler

4 Houghton

Material

Steel

Outside diameter

3'-8 1/4"

Length of plain part

top -

bottom -

Thickness of plates

crown 19/32"

bottom 3/32"

Description of longitudinal joint

Weld

No. of strengthening rings

-

Working pressure of furnace by the rules

213

Combustion chamber

plates: Material

Steel

Thickness: Sides

11/16"

Back

21/32"

Top

11/16"

Bottom

11/16"

Pitch of stays to ditto: Sides

8 1/2" x 9 1/2"

Back

Top

8 1/2" x 8 1/2"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

221

Material of stays

Steel

Area at

smallest part

207

Area supported by each stay

77 1/8"

Working pressure by rules

241

End plates in steam space: Material

Steel

Thickness

Pitch of stays

22

How are stays secured

Nuts

Working pressure by rules

200

Material of stays

Steel

Area at smallest part

9.62

Area supported by each stay

484

Working pressure by rules

206

Material of Front plates at bottom

Steel

Thickness

1"

Material of

Lower back plate

Steel

Thickness

7/8"

Greatest pitch of stays

14"

Working pressure of plate by rules

203

Diameter of tubes

Pitch of tubes

3 3/4" x 3 5/8"

Material of tube plates

Steel

Thickness: Front

1 1/4"

Back

29/32"

Mean pitch of stays

9 1/4"

Pitch across wide

water spaces

13 1/2"

Working pressures by rules

203

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

8" x 1" (2)

Length as per rule

2-8 7/16"

Distance apart

8 1/2"

Number and pitch of Stays in each

(3)

8 1/2"

Working pressure by rules

204

Steam dome: description of joint to shell

None

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

None

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

The foregoing is a correct description,  
FOR BARCLAY, CURLE & CO., LTD.

Manufacturer.

John Alexander

Manager

Is the approved plan of boiler forwarded herewith

No

Dates of Survey

During progress of

work in shops - -

while

During erection on

board vessel - - -

building

See accompanying machinery

Report.

Total No. of visits

GENERAL REMARKS

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

These Boilers have been built under special Survey materials and workmanship are good

Survey Fee

£ See Mach. Report

When applied for,

191

Travelling Expenses (if any) £

When received,

191

Committee's Minute

GLASGOW 9-DEC-1919

Assigned

See attached machinery report.

Engineer Surveyor to Lloyd's Register of Shipping.

TUE. 23 DEC. 1919

Lloyd's Register

Foundation

W489-0163