

## REPORT ON BOILERS.

No. 39816.

Received at London Office

WED. APR. 14 1920

Date of writing Report

191

When handed in at Local Office

12. 4. 1920 Port of Glasgow

No. in Survey held at

Renfrew

Date, First Survey 22. 1. 18.

Last Survey 31. 7. 1918.

Reg. Book.

on the Boilers No 624 for Racia Type Lug "JAUNTY"

(Number of Visits 14)

Gross 600

Tons

Net 57

Master

Built at

Whiteinch

By whom built

Ritchie Graham &amp; Thilne (343)

When built

1919

Engines made at

Paisley

By whom made

Campbell &amp; Halderwood (953)

When made

1919

Boilers made at

Renfrew

By whom made

Wm Simons &amp; Co Ltd (624)

When made

1918

Registered Horse Power

Owners

H.M. Government

Port belonging to

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

Stul Co of Scotland

(Letter for record

S)

Total Heating Surface of Boilers

3600 sq

Is forced draft fitted

Yes

No. and Description of

Boilers Two. Single ended

Working Pressure

180 lbs

Tested by hydraulic pressure to

360 lbs

Date of test 31. 7. 18

No. of Certificate

14384

Can each boiler be worked separately

-

Area of fire grate in each boiler

66 sq

No. and Description of

safety valves to each boiler

-

Area of each valve

-

Pressure to which they are adjusted

-

Are they fitted with easing gear

-

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

14' 1 1/2"

Length 10' 6"

Material of shell plates

stul

Thickness

1 5/32"

Range of tensile strength

28 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

DR lap

long. seams

DBS. TR

Diameter of rivet holes in long. seams

1 3/8"

Pitch of rivets

8 5/8"

Lap of plates or width of butt straps

14 1/2"

Per centages of strength of longitudinal joint

rivets 86.2

plate 85.6

Working pressure of shell by

rules 182

Size of manhole in shell

20 x 16

Size of compensating ring

34 x 33 x 1 5/32"

No. and Description of Furnaces in each

boiler 3 Morrison

Material

stul

Description of longitudinal joint

weld

No. of strengthening rings

-

Working pressure of furnace by the rules

196

Combustion chamber

plates: Material

stul

Thickness: Sides

19"

Back

19"

Top

19"

Top 9 x 7

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

190

Material of stays

stul

Diameter at

smallest part

1.45"

Area supported by each stay

6.3"

Working pressure by rules

183

End plates in steam space: Material

stul

Pitch of stays

19 1/4 x 18 3/4"

How are stays secured

DN &amp; W

Working pressure by rules

185

Material of stays

stul

Diameter at

smallest part

6.33"

Area supported by each stay

36.5"

Working pressure by rules

180

Material of Front plates at bottom

stul

Thickness

7/8"

Material of

Lower back plate

stul

Thickness

2 1/2"

Greatest pitch of stays

14"

Pitch of tubes

4 7/8 x 4 7/8"

Material of tube plates

stul

Thickness: Front

7/8"

Back

11/16"

Mean pitch of stays

8 7/8"

Pitch across wide

water spaces

14 1/4" doubled

Working pressures by rules

184

Girders to Chamber tops: Material

stul

Depth and thickness of

girder at centre

2 plates 7 1/8 x 11 1/8"

Length as per rule

2' 6 1/2"

Distance apart

9"

Number and pitch of Stays in each

3 of 7"

Working pressure by rules

198

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

holes

Pitch of rivets

-

Working pressure of shell by rules

-

Diameter of flue

-

Material of flue plates

-

Thickness

-

If 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

No. 2163

attached

FOR WM. SIMONS &amp; CO. LTD.

The foregoing is a correct description,

Jm C. Simons

Manufacturer.

Dates

During progress of

work in shops

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while

During erection on

board vessel

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building

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

These boilers have been constructed

under special survey in accordance with the rules and approved plan.

Materials &amp; workmanship are good. The boilers have been securely fitted on board

the vessel and tried under steam with satisfactory results.

Survey Fee

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Travelling Expenses (if any) £

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Committee's Minute

GLASGOW

18 APR 1920

Assigned

See attached machinery report

Harry Clarke  
Engineer Surveyor to Lloyd's Register of Shipping.Lloyd's Register  
Foundation