

## REPORT ON BOILERS.

No. 56828

Received at London Office

Date of writing Report

19

When handed in at Local Office

11 JUN 1909

Port of Newcastle

SAT. 12 JUN 1909

No. in Survey held at

S. Shields

Date, First Survey

18th Feby

Last Survey

5th June

1909

Reg. Book.

(Number of Visits)

Gross

515

Net

197

on the

S.S. 'WHEATFIELD'

Master

Built at

S. Shields

By whom built

J. T. Eltringham &amp; Co.

When built

1909-6

Engines made at

S. Shields

By whom made

G. T. Eltringham

when made

1909

Boilers made at

South Shields

By whom made

J. T. Eltringham &amp; Co. Boiler No 1620

when made

1909

Registered Horse Power

✓

Owners

Spicer &amp; Baker Ltd.

Port belonging to

Cardiff

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

Spencer &amp; Sons

(Letter for record

(S)

Total Heating Surface of Boilers

1760

Is forced draft fitted

No

No. and Description of

Boilers

1 Cyl. Multitubular. S. Ended

Working Pressure

130 lbs

Tested by hydraulic pressure to

260 lbs

Date of test

19-4-09

No. of Certificate

7845

Can each boiler be worked separately

✓

Area of fire grate in each boiler

55

No. and Description of

safety valves to each boiler

2. Spring

Area of each valve

8.29

Pressure to which they are adjusted

135 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

Clear of Bunkers

dia. of boilers

14'-0"

Length

10'-6"

Material of shell plates

Steel

Thickness

29/32

Range of tensile strength

28 3/4 - 32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

L. D. R.

long. seams

D. B. D. R.

Diameter of rivet holes in long. seams

1 1/8"

Pitch of rivets

5 3/8"

Lap of plates or width of butt straps

10 5/8"

Per centages of strength of longitudinal joint

rivets 81.5%

Working pressure of shell by

rules

134 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

7 1/2" x 29/32"

No. and Description of Furnaces in each

boiler

Three plain

Material

Steel

Outside diameter

41 1/8"

Length of plain part

top 76"

bottom 76"

Thickness of plates

crown 5/8"

bottom 5/8"

Description of longitudinal joint

D. B. S. R.

No. of strengthening rings

1

Working pressure of furnace by the rules

134

Combustion chamber

plates: Material

Steel

Thickness: Sides

5/8"

Back

19/32"

Top

5/8"

Bottom

5/8"

Pitch of stays to ditto: Sides

10 1/2" x 9 1/4"

Back

9 3/4" x 9 1/2"

Top 10 1/2" x 9"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

131 lbs

Material of stays

Steel

Diameter at

smallest part

1 1/32"

Area supported by each stay

102.375

Working pressure by rules

131 lbs

End plates in steam space: Material

Steel

Thickness

1 1/32"

Pitch of stays

19 1/2" x 19 1/4"

How are stays secured

D. N. &amp; W.

Working pressure by rules

133

Material of stays

Steel

Diameter at smallest part

2 1/32"

Area supported by each stay

345.3

Working pressure by rules

139 lbs

Material of Front plates at bottom

Steel

Thickness

27/32"

Material of

Lower back plate

Steel

Thickness

25/32"

Greatest pitch of stays

12 7/8" x 9 1/2"

Working pressure of plate by rules

136

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2" x 4 1/2"

Material of tube plates

Steel

Thickness: Front

1 1/2" x 27/32"

Back

1 1/16"

Mean pitch of stays

11 1/4"

Pitch across wide

water spaces

14 1/4"

Working pressures by rules

133 lbs

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

6 1/2" x 13/4"

Length as per rule

2'-8"

Distance apart

9"

Number and pitch of Stays in each

Two 10 1/2"

Working pressure by rules

130 lbs

Superheater or Steam chest: how connected to boiler

-

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

-

The foregoing is a correct description,

J. T. Eltringham &amp; Co. Manufacturer of Main Boilers

Dates

During progress of

1909

Feb. 18-22-25. Mar. 3-9-16-18-23-29. Apr. 1-7-19

Is the approved plan of boiler forwarded herewith

of Survey

work in shops - -

while

building

(During erection on) board vessel - -

See Machinery report

Total No. of visits

12 +

## GENERAL REMARKS

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

This boiler has been built under special survey the materials and workmanship are sound & good.

This Boiler has now been satisfactorily fitted in the above vessel

Survey Fee

...

£

When applied for,

19

Travelling Expenses (if any) £

When received,

18

Committee's Minute

TUES. 15 JUN 1909

Assigned

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



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