

REPORT ON BOILERS.

No. 65453

Date of writing Report

19

When handed in at Local Office

JAN 26 1914

Received at London Office

No. in
Reg. Book.

Survey held at

South Shields

When handed in at Local Office

JAN 26 1914

Port of

Newcastle-on-Tyne

TUE JAN. 27. 1914

33 in dia. on the

6.5. "Onwen"

Date, First Survey

13th Jan 1913

Last Survey

23rd

Jan 1914

(Number of Visits)

Gross

4250

Tons

Net

2707

Master

Built at South Shields

By whom built

J. Readhead & Sons Ltd.

When built

1914

Engines made at

South Shields

By whom made

J. Readhead & Sons Ltd.

when made

1914

Boilers made at

South Shields

By whom made

J. Readhead & Sons Ltd.

when made

1914

Registered Horse Power

Owners

Mr. & C. J. Jones S.S. Co. Ltd.

Port belonging to

Cardiff.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

John Spencer & Sons Ltd.

(Letter for record)

Total Heating Surface of Boilers

929.53 sq ft

Is forced draft fitted

No.

No. and Description of

Boilers One cylindrical multitubular

Working Pressure

120 lbs

Tested by hydraulic pressure to

240 lbs

Date of test

16.10.13

No. of Certificate

8578

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

30 sq ft

No. and Description of

safety valves to each boiler

2 spring-loaded

Area of each valve

7.06 sq ft

Pressure to which they are adjusted

120 lbs

Are they fitted with easing gear

Yes

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

No. N.R. value

Smallest distance between boilers or uptakes and bunkers or woodwork

On Deck

Mean dia. of boilers

10'-0 3/4"

Length

10'-7 1/2"

Material of shell plates

Steel

Thickness

3/4"

Range of tensile strength

24/32 2msd

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

S.R. Lap.

long. seams

S.R. Lap.

Diameter of rivet holes in long. seams

1 1/8"

Pitch of rivets

4 1/2"

Lap of plates or width of butt straps

7 1/4"

Per centages of strength of longitudinal joint

rivets 75.1

plate 75.

Working pressure of shell by

rules

127 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

8" x 3/4"

No. and Description of Furnaces in each

top 6'-3"

Thickness of plates

crown 9/16"

bottom 1/16"

boiler 2 Plain

Material Steel

Outside diameter

36"

Length of plain part

top 6'-3"

bottom 9'-4"

Working pressure of furnace by the rules

125 lbs

Combustion chamber

Description of longitudinal joint

S.R. Lap.

No. of strengthening rings

Working pressure of furnace by the rules

125 lbs

Material of stays

Iron

Diameter at

area

Thick-

ness

plates: Material

Steel

Thickness: Sides

1/16"

Back

1/16"

Top

1/16"

Bottom

1/16"

Pitch of stays to ditto: Sides

11 x 11"

Back

11 x 11"

Top 10' x 10'

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

135 lbs

Material of stays

Iron

Diameter at

area

Thick-

ness

End plates in steam space: Material

Steel

Thick-

ness

smallest part 1.990

Area supported by each stay

125 lbs

Working pressure by rules

123 lbs

End plates in steam space: Material

Steel

Thick-

ness

Diameter at smallest part

4.110"

Material of stays

Steel

Thick-

ness

Pitch of stays 20' x 18"

How are stays secured

DN + Duffing

Working pressure by rules

223 lbs

Material of stays

Steel

Thick-

ness

Diameter at smallest part

4.110"

Material of stays

Steel

Thick-

ness

Area supported by each stay

360 0"

Working pressure by rules

132 lbs

Material of Front plates at bottom

Steel

Thick-

ness

Diameter of tubes

3 1/4"

Material of

tubes

Thick-

ness

Lower back plate

Steel

Thickness

3/4"

Greatest pitch of stays

12 1/2" x 11"

Working pressure of plate by rules

148 lbs

Diameter of tubes

3 1/4"

Pitch across wide

water spaces

14"

Working pressures by rules

183 lbs

Girders to Chamber tops: Material

Steel

Depth and thickness of

girders at centre

7 1/2" x 1 1/2"

Length as per rule

30"

Distance apart

10"

Number and pitch of Stays in each

2-10"

Working pressure by rules

150 lbs

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

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. Readhead

Manufacturer.

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

During progress of

work in shops - -

During erection on

board vessel - -

See Mch Report

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

This Boiler has been constructed

under special survey. The materials & workmanship are sound & good. It has

been tested by hydraulic pressure & the safety valves have been adjusted under

steam

Survey Fee ... £ 2 : 2

When applied for.

19

Travelling Expenses (if any) £

When received.

19

Committee's Minute

FRI. JAN. 30. 1914

Signed

R. Lee

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

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Lloyd's Register

Foundation

UK 44-0092