

REPORT ON BOILERS.

No. 65453

Date of writing Report

19

When handed in at Local Office

JAN 26 1914

Received at London Office

Port of Newcastle-on-Tyne

TUE JAN. 27. 1914

No. in Survey held at

South Shields

Reg. Book.

33m Sup. on the

G.S. "Onwen"

Date, First Survey

13th Jan 1913

Last Survey

23rd

May 1914

(Number of Visits)

Gross

4250

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.

(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 25000

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

ribs 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 1/4"

No. and Description of Furnaces in each

boiler

2 Plain

Material

Steel

Outside diameter

36"

Length of plain part

top 6'-3"

bottom 9'-4"

Thickness of plates

coron 9/16"

bottom 1/16"

Description of longitudinal joint

S.R. Lap.

No. of strengthening rings

Working pressure of furnace by the rules

125 lbs

Combustion chamber

plates: Material

Steel

Thickness: Sides

1/16"

Top

10' x 10'

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

135 lbs

Material of stays

Iron

Area

Diameter at

smallest part

Area supported by each stay

1.990

Working pressure by rules

123 lbs

End plates in steam space: Material

Steel

Thickness

13/16"

Area supported by each stay

3600

Working pressure by rules

132 lbs

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 1/2"

Material of

Pitch of tubes

4 1/2"

Material of tube plates

Steel

Thickness: Front

3/4"

Back

3/4"

Mean pitch of stays

11 1/4"

Pitch across wide

water spaces

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder 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

Yes

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Are they 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

Yes

The foregoing is a correct description,

J. M. Readhead

Manufacturer.

Is the approved plan of boiler forwarded herewith

Dates

During progress of

work in shops

See Mchly Report

During erection on

board vessel

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

Working pressure of end plates

Area of safety valves to superheater

Survey Fee

£ 2 : 0

When applied for

See Mchly Report

When received

19

Travelling Expenses (if any) £

When received

19

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

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