

REPORT ON BOILERS.

No. 73339

Received at London Office

THU. JUL. 22 1920

Port of Newcastle-on-Tyne
Date, First Survey White building

Date, First Survey

(Number of Visits)

Gross

Net

Survey held at Wallsend

on the S.S. "CITY OF BRISBANE"

Built at Newcastle

By whom built Swan Hunter, Milham Richardson & Co.

When built 1920

By whom made Wallsend Slipway and Engineering Co. Ltd.

When made 1920

By whom made

When made 1920

Owners Ellerman Lines Ltd.

Port belonging to

WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

John Spencer & Sons Ltd.

Total Heating Surface of Boilers 1682 sq

Is forced draft fitted Yes

No. and Description of

One Single-Ended Mult?

Working Pressure 225

Tested by hydraulic pressure to 394

Date of test 23.12.19

Can each boiler be worked separately Yes

Area of fire grate in each boiler 42 sq

No. and Description of

boilers to each boiler 2. Spring-loaded

Area of each valve 5.94 sq

Pressure to which they are adjusted 230 lbs

fitted with easing gear Yes

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

distance between boilers or uptakes and bunkers or woodwork 8"

dia. of boilers 12' 9"

Length 11' 6" (mean)

of shell plates Steel

Thickness 1 1/4"

Range of tensile strength 30/34 ton

Are the shell plates welded or flanged No

of riveting: cir. seams DR. Lap.

long. seams J.A. DR.

Diameter of rivet holes in long. seams 1 7/16"

Pitch of rivets 9"

plates or width of butt straps 18 1/2"

Per centages of strength of longitudinal joint

rivets 89.5

Working pressure of shell by

Size of manhole in shell 16" x 12"

Size of compensating ring in shell

No. and Description of Furnaces in each

2 Draughts

Material Steel

Outside diameter 49 3/8"

Length of plain part

Thickness of plates

tion of longitudinal joint welded

No. of strengthening rings

Working pressure of furnace by the rules 242

Combustion chamber

Material Steel

Thickness: Sides 7/16"

Back 7/16"

Top 7/16"

Bottom 1 1/8"

Pitch of stays to ditto: Sides 9 x 8"

Back 9 x 8"

If stays are fitted with nuts or riveted heads nuts

Working pressure by rules 225

Material of stays Steel

Area at

part 2.030

Area supported by each stay 72.0

Working pressure by rules 253

End plates in steam space: Material Steel

Thickness 1 1/4"

of stays 18 1/2 x 17 1/4

How are stays secured DR.

Working pressure by rules 225

Material of stays Steel

Area at smallest part 7.240

supported by each stay 319.0

Working pressure by rules 236

Material of Front plates at bottom Steel

Thickness 1"

Material of

back plate Steel

Thickness 5/16"

Greatest pitch of stays 14"

Working pressure of plate by rules 225

Diameter of tubes 2 1/2"

of tubes 3 1/4 x 3 3/4

Material of tube plates Steel

Thickness: Front 1"

Back 1 1/8"

Mean pitch of stays 7 1/2"

Pitch across wide

spaces 13 1/4"

Working pressures by rules 233

Girders to Chamber tops: Material Steel

Depth and thickness of

at centre 9 1/16 x 1 1/2

Length as per rule 31 1/8"

Distance apart 9 1/8"

Number and pitch of Stays in each 3-7 1/8"

ng pressure by rules 225

Steam dome: description of joint to shell

% of strength of joint

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

REHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

of Test

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

ter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

The foregoing is a correct description,

A. Cairns

Manufacturer.

Is the approved plan of boiler forwarded herewith

Total No. of visits

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

Boiler has been built under Special Survey. The materials and workmanship are second to none. Has been efficiently installed and the safety valves adjusted under steam.

Survey Fee ... £

When applied for, ...

19

Travelling Expenses (if any) £

When received, ...

19

Committee's Minute

FRI. JUL. 30 1920

signed

Rice Ames & Thomas Field
Engineer Surveyor to Lloyd's Register of Shipping.

W372-0065

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