

REPORT ON BOILERS.

London Rpt 82560

No. 328

Date of writing Report

4/9/

1919

When handed in at Local Office

4/9/

1919

Port of Sheffield

Received at London Office

MON 8 SEP 1919

No. in

Survey held at Oldbury

Reg. Book.

Date, First Survey

27/3/19

Last Survey

16-12

1919

on the

Admiralty Grifter Boiler, D506

S.S. 'Current'

(Number of Plates

Tons

Gross

Net

Master

Built at

Lowestoft

By whom built

J. Chambers Ltd

L¹ N² 499

When built

1919

Engines made at

Lowestoft

By whom made

John Chambers Ltd

N^o 219

When made

1919

Boilers made at

Oldbury

By whom made

Edwin Banks & Co. Ltd

When made

1919

Registered Horse Power

Owners

Admiralty

Port belonging to

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.

(Letter for record S)

Total Heating Surface of Boilers

814 ft²

Is forced draft fitted

No. and Description of

Boilers One, Single Ended, by Multitubular

Working Pressure

180 lb

Tested by hydraulic pressure to

360 lb

Date of test

21/8/19

No. of Certificate

419

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of

safety valves to each boiler Two Spring Loaded

Area of each valve

3' 9"

Pressure to which they are adjusted

180 lbs

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

6"

Mean dia. of boilers

10' 0"

Length

9' 6"

Material of shell plates

Steel

Thickness

27/32"

Range of tensile strength

28/32"

Are the shell plates welded or flanged

Flanged

Descrip. of riveting: cir. seams

D. Rivet

long. seams

D.B. Rivet

Diameter of rivet holes in long. seams

15/16"

Pitch of rivets

7"

Lap of plates or width of butt straps

13 3/4"

Per centages of strength of longitudinal joint

rivets 86.9

Working pressure of shell by

rules

182 lb

Size of manhole in shell

16" x 12"

Size of compensating ring

6" x 27/32"

plate 86.6

Working pressure of shell by

boiler Two Plain

Material

Steel

Outside diameter

3' 2"

Length of plain part

top 6' 0 1/2"

Thickness of plates

crown

1 1/8"

Description of longitudinal joint

Welded

No. of strengthening rings

3" x 3" x 5/8"

Working pressure of furnace by the rules

180 lb

Combustion chamber

plates: Material

Steel

Thickness: Sides

9/16"

Back

9/16"

Top

9/16"

Bottom

9/16"

Pitch of stays to ditto: Sides

7 1/4" x 8"

Back

7 1/2" x 8"

Top

8"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

182 lb

Material of stays

Steel

Area at

smallest part

1' 5"

Area supported by each stay

8" x 7 1/2"

Working pressure by rules

200 lb

End plates in steam space: Material

Steel

Thickness

7/8"

Area at smallest part

3' 4"

Pitch of stays

14" x 14"

How are stays secured

DN & Wash

Working pressure by rules

185 lb

Material of stays

Steel

Area at smallest part

3' 4"

Area supported by each stay

196"

Working pressure by rules

182 lb

Material of Front plates at bottom

Steel

Thickness

7/8"

Material of

Thickness

7/8"

Material of

Thickness

7/8"

Material of

Thickness

7/8"

Lower back plate

Steel

Thickness

7/8"

Greatest pitch of stays

13 1/2" x 7 1/2"

Working pressure of plate by rules

229 lb

Diameter of tubes

3 1/4"

Pitch of tubes

4 3/8" x 4 1/4"

Material of tube plates

Steel

Thickness: Front

7/8"

Back

7/8"

Mean pitch of stays

9 1/4"

Pitch across wide

water spaces

13 1/4"

Working pressures by rules

180 lb

Girders to Chamber tops: Material

Steel

girder at centre

8" x 1 1/8"

Length as per rule

28 3/8"

Distance apart

4"

Number and pitch of Stays in each

Two

8"

Working pressure by rules

190 lb

Steam dome: description of joint to shell

-

% of strength of joint

-

Diameter

-

Thickness of shell plates

-

Material

-

Description of longitudinal joint

-

Diam. of rivet holes

-

Pitch of rivets

-

Working pressure of shell by rules

-

Crown plates

-

Thickness

-

How stayed

-

Type

-

Date of Approval of Plan

-

Tested by Hydraulic Pressure to

-

Date of Test

-

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

-

Pressure to which each is adjusted

-

Is Easing Gear fitted

-

Diameter of Safety Valve

-

-

-

-

-

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-

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-

-

-

-

-

-

-

Pitch of tubes

4 3/8" x 4 1/4"

Material of tube plates

Steel

Thickness: Front

7/8"

Back

7/8"

Mean pitch of stays

9 1/4"

Pitch across wide

water spaces

13 1/4"

Working pressures by rules

180 lb

Girders to Chamber tops: Material

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Working pressure by rules

190 lb

Steam dome: description of joint to shell

-

% of strength of joint

-

Diameter

-

Thickness of shell plates

-

Material

-

Description of longitudinal joint

-

Diam. of rivet holes

-

Pitch of rivets

-

Working pressure of shell by rules

-

Crown plates

-

Thickness

-

How stayed

-

Type

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Date of Approval of Plan

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Pitch of tubes