

REPORT ON BOILERS.

No. 26442

Received at London Office

THU. MAY 6 - 1915

Date of writing Report

191

When handed in at Local Office

- 5. MAY 1915

Port of

Sunderland

No. in Survey held at

SUNDERLAND.

Date, First Survey

June 8

Last Survey

30th April 1915

Reg. Book.

on the *Steel 3/5. Hartfield*

(Number of Visits)

Gross

4651

Tons

Net 2885

Master

B. J. Keely

Built at

Siland

By whom built

Bartram & Sons Ltd

When built 1915

Engines made at

Siland

By whom made

J. Dickinson & Sons Ltd

When made 1915

Boilers made at

"

By whom made

"

When made 1915

Registered Horse Power

461

Owners

Woodfield Shipping Co. Ltd

Port belonging to

*London*MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel *Amsterdam Yeren. Steelhandel*

(Letter for record

S.

Total Heating Surface of Boilers

1152 sq ft

Is forced draft fitted

no

No. and Description of

Boilers

One multitubular

Working Pressure

120

Tested by hydraulic pressure to

*240*Date of test *17.2.15*

No. of Certificate

3247

Can each boiler be worked separately

yes

Area of fire grate in each boiler

33.7 sq ft

No. and Description of

safety valves to each boiler

two Spring

Area of each valve

3" dia

Pressure to which they are adjusted

123 lb

Are they fitted with easing gear

yes

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

no

Smallest distance between boilers or uptakes and bunkers or woodwork

2 feet

Mean dia. of boilers

11 ft

Length

11 ft

Material of shell plates

S

Thickness

1/2"

Range of tensile strength

28-32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

DR lap

long. seams

DR. DBS

Diameter of rivet holes in long. seams

15/16"

Pitch of rivets

4 3/4"

Exp. of plates or width of butt straps

9 1/2"

Per centages of strength of longitudinal joint

rivets *94.3%*plate *80.26%*

Working pressure of shell by

rules

121 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

7 1/2" x 16"

No. and Description of Furnaces in each

boiler

two plain

Material

S

Outside diameter

3' 2"

Length of plain part

top *80"*bottom *86 1/2"*

Thickness of plates

crown *5/8"*bottom *5/8"*

Description of longitudinal joint

S. R. S. B. S.

No. of strengthening rings

1

Working pressure of furnace by the rules

132

Combustion chamber

plates: Material

S

Thickness: Sides

5/8"

Back

5/8"

Top

5/8"

Bottom

3/4"

Pitch of stays to ditto: Sides

9 x 10 1/2"

Back

10 x 10 1/2"

Top

8 x 10 1/2"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

127 lbs

Material of stays

S

Diameter at

smallest part

1 1/4"

Area supported by each stay

106"

Working pressure by rules

130

End plates in steam space: Material

S

Thickness

3/4"

Pitch of stays

4 1/2 x 15"

How are stays secured

1 nut

Working pressure by rules

123

Material of stays

S

Diameter at smallest part

1 7/8"

Area supported by each stay

214 1/2"

Working pressure by rules

120

Material of Front plates at bottom

S

Thickness

13/16"

Material of

Lower back plate

S

Thickness

1/2"

Greatest pitch of stays

12 1/2 x 10 5/8"

Working pressure of plate by rules

122

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2 x 4 1/2"

Material of tube plates

S

Thickness: Front

1 3/16"

Back

1/2"

Mean pitch of stays

9 x 13 1/2"

Pitch across wide

water spaces

1' 2"

Working pressures by rules

121 lbs

Girders to Chamber tops: Material

S

Depth and thickness of

girder at centre

6 1/2 x 8 (two)

Length as per rule

33 1/4"

Distance apart

8"

Number and pitch of Stays in each

2 @ 10 1/2"

Working pressure by rules

131

Superheater or Steam chest: how connected to boiler

no

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,

John Dickinson & Sons, Limited.

Manufacturer.

Dates

During progress of

work in shops - -

while

During erection on

board vessel - -

building

see Machinery report

Is the approved plan of boiler forwarded herewith

yes

Total No. of visits

1

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

*Boiler built under**Special survey: materials and workmanship good**examined under full pressure & found satisfactory*

Survey Fee

£

2

When applied for,

1.5

1915

Travelling Expenses (if any) £

:

:

When received,

2.5

1915

J. J. Findlay

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

Committee's Minute

FRI. MAY 7 - 1915

Assigned

see minute 10 of rpt attached

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Lloyd's Register

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