

Rpt. 5.

REPORT ON BOILERS.

Hwc. No. 49681.

Sta. No. 22604

Port of

Newcastle-on-Tyne

Received at London Office

30

No. in
Reg. Book.

Survey held at

South Shields

Date, first Survey July 6th

Last Survey Oct 25

1905

(Number of Visits 18)

on the

J. L. Thompson S. S. No. 437

S. S. "Siam"

Tons

Gross 4660.17
Net 3018.56

Master N. Valentin

Built at Sunderland

By whom built

J. L. Thompson & Sons Ltd

When built

1905

Engines made at

Sunderland

By whom made

J. L. Thompson & Sons

when made

1905

Boilers made at

South Shields

By whom made

J. L. Thompson & Sons

when made

1905

Registered Horse Power

Owners

Port belonging to Fiume

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

J. L. Thompson & Sons

(Letter for record

2)

Total Heating Surface of Boilers

864 ft²

Is forced draft fitted

No. and Description of

Boilers

1 Single ended

Working Pressure

100 lbs

Tested by hydraulic pressure to

200 lbs Date of test 25-10-05

No. of Certificate

7110

Can each boiler be worked separately

Area of fire grate in each boiler

30 ft²

No. and Description of

safety valves to each boiler

2 Spring

Area of each valve

4.91 ft²

Pressure to which they are adjusted

100 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

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

10.6

Length

10

Material of shell plates

Steel

Thickness

5/8

Range of tensile strength

28-32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

Lap D.R.

long. seams

Lap tublin

Diameter of rivet holes in long. seams

15/16

Pitch of rivets

3 3/4

Lap of plates or width of butt straps

6 9/16

Per centages of strength of longitudinal joint

rivets 75

Working pressure of shell by

rules

107

Size of manhole in shell

12 x 16

Size of compensating ring

7 x 5 1/2

No. and Description of Furnaces in each

boiler

2 Plain

Material

Steel

Outside diameter

35 1/4

Length of plain part

top 76

bottom 108

Thickness of plates

crown 1/2

bottom 5/8

Description of longitudinal joint

Lap S.R.

No. of strengthening rings

C

Working pressure of furnace by the rules

100

Combustion chamber

plates: Material

Steel

Thickness: Sides

17/32

Back

9/16

Top

9/16

Bottom

5/8

Pitch of stays to ditto: Sides

9/4 x 9

Back

9/4 x 10 3/4

Top flange

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

104

Material of stays

iron

Diameter at

smallest part

1.98

Area supported by each stay

9 1/4 x 9

Working pressure by rules

101

End plates in steam space: Material

Pitch of stays

18 1/2 x 20

How are stays secured

Ditto to W

Working pressure by rules

104

Material of stays

Steel

Diameter at smallest part

4.22

Area supported by each stay

18 1/2 x 20

Working pressure by rules

109

Material of Front plates at bottom

Steel

Thickness

1 3/8

Material of

Lower back plate

Steel

Thickness

2 1/4

Greatest pitch of stays

12 1/4 x 10 3/4

Working pressure of plate by rules

108

Diameter of tubes

3 1/4

Pitch of tubes

4 3/8

Material of tube plates

Steel

Thickness: Front

2 1/4

Back

2 3/4

Mean pitch of stays

13 1/2 x 13 1/2

Pitch across wide

water spaces

13 3/4

Working pressures by rules

Girders to Chamber tops

Material

rounded

Depth and thickness of

girder at centre

Length as per rule

Distance apart

Number and pitch of Stays in each

Working pressure by rules

Superheater or Steam chest: how connected to boiler

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

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

VERTICAL DONKEY BOILER—

No.

Description

Manufacturers of steel

Made at

By whom made

When made

Where fixed

Working pressure

tested by hydraulic pressure to

No. of Certificate

Fire grate area

Description of safety valves

No. of safety valves

Area of each

Pressure to which they are adjusted

If fitted with easing gear

If steam from main boilers can

enter the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Range of tensile

strength

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

Lap of plating

Per centage of strength of joint

Working pressure of shell by rules

Thickness of shell crown plates

Radius of do.

No. of Stays to do.

Dia. of stays

Diameter of furnace Top

Bottom

Length of furnace

Thickness of furnace plates

Description of joint

Working pressure of furnace by rules

Thickness of furnace crown

plates

Stayed by

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

J. L. Thompson

Manufacturer.

Dates

of Survey

while

building

Total No. of visits

18

During progress of

work in shops

During erection on

board vessel

1905 July 6, 7, 11, 22, 28 Aug 2, 9, 11, 18, 25 Sep 1, 7, 15, 22, 29 Oct 6, 12, 25

Is the approved plan of main boiler forwarded herewith

" donkey "

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Lloyd's Register

Foundation

W545-0160

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

This Boiler has been built under Special Survey, has been tested by hydraulic pressure to 200 lbs.

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee...	£	:	:	When applied for.
Special	£	:	:	17th Nov 1905
Donkey Boiler Fee ...	£	2	2	When received.
Travelling Expenses (if any) £	:	:	:	12/12/05

8/1/06

G. A. Dryden Joyne & R. W. Coombe.
Engineer Surveyors to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. 2 FEB 1906

Assigned



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