

REPORT ON BOILERS.

No. 50904

Port of *Newcastle on Tyne*

MON. 11 JUN 1906

of Safety

Survey held at *S. Shields*Date, first Survey *Nov. 30 '05*

Received at London Office

Last Survey *Feb. 27*

1906.

Boat.

(Number of Visits *15*)Tons $\left\{ \begin{array}{l} \text{Gross } 320 \\ \text{Net } 127 \end{array} \right.$

ter

Built at *York*By whom built *York S. B. C.*When built *1906*

ines made at

*S. Shields*By whom made *G. J. Guy*when made *1906. 5.*

er made at

*South Shields*By whom made *G. J. Eltringham & Co*when made *1906*

istered Horse Power

*71*Owners *Westcombe Shipping Co*Port belonging to *Newcastle*MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~—Manufacturers of Steel *John Spencer & Sons*

atter for record

S.

Total Heating Surface of Boilers

1328

Is forced draft fitted

No.

No. and Description of

Boilers One

S. E. Cyl. multitubular

Working Pressure

130 lbs

Tested by hydraulic pressure to

*260 lbs*Date of test *27/2/06*

of Certificate

7182

Can each boiler be worked separately

☒

Area of fire grate in each boiler

44 sq

No. and Description of

safety valves to each boiler

2. Spring Load

Area of each valve

7.06 sq

Pressure to which they are adjusted

135 lbs

they fitted with easing gear

Yes

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

No.

greatest distance between boilers or uptakes and bunkers

12' 0"

Mean dia. of boilers

12'-6 3/4"

Length

10'-0"

material of shell plates

Steel

Thickness

29/32"

Range of tensile strength

28 1/2 - 32

Are the shell plates

*welded or flanged**No.*

descrip. of riveting: cir. seams

Lap. L.R.

long. seams

Lap. L.R.

Diameter of rivet holes in long. seams

1 1/8"

Pitch of rivets

4 3/4"

p of plates or width of butt straps

12 5/8"

Per centages of strength of longitudinal joint

rivets *78.6*

Working pressure of shell by

plate *76.3*

es

13 1/2 lbs

Size of manhole in shell

17" x 13"

Size of compensating ring

7" x 1"

No. and Description of Furnaces in each

Boiler

Three - plain

Material

Steel

Outside diameter

37"

Length of plain part

top *6'-1"*bottom *8'-10 1/2"*

Thickness of plates

crown *19/32"*bottom *23/32"*

description of longitudinal joint

Lap. S.R.

No. of strengthening rings

☒

Working pressure of furnace by the rules

140 lbs

Combustion chamber

utes: Material

Steel

Thickness: Sides

9/16"

Back

19/32"

Top

9/16"

Bottom

23/32"

Pitch of stays to ditto: Sides

9 1/4 x 9"

Back

*9 1/2 x 9 3/4"*p *9 1/4 x 9 1/4"*

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

131 lbs

Material of stays

Steel

Diameter at

29"

allest part

1 1/2"

Area supported by each stay

83 sq

Working pressure by rules

136 lbs

End plates in steam space: Material

Steel

Thickness

32"

tch of stays

17 x 17 1/4"

How are stays secured

102.4 lbs

Working pressure by rules

133 lbs

Material of stays

Steel

Diameter at smallest part

2 5/16"

ea supported by each stay

297.5 sq

Working pressure by rules

143

Material of Front plates at bottom

Steel

Thickness

7/8"

Material of

Steel

over back plate

Steel

Thickness

25/32"

Greatest pitch of stays

14 1/2 x 9 1/2"

Working pressure of plate by rules

140 lbs

Diameter of tubes

3 1/2"

tch of tubes

4 3/4 x 4 3/4"

Material of tube plates

Steel

Thickness: Front

29 1/2 x 7/8"

Back

3/4"

Mean pitch of stays

11 7/8"

Pitch across wide

11 7/8"

Pitch across wide

11 7/8"

uter spaces

14 1/2"

Working pressures by rules

130 lbs

Girders to Chamber tops: Material

Steel

Depth and thickness of

Two. 9"

rder at centre

5 1/2 x 2 1/16"

Length as per rule

2'-6"

Distance apart

9 1/4"

Number and pitch of Stays in each

Two. 9"

Working pressure by rules

131

Superheater or Steam chest: how connected to boiler

☒

orking pressure by rules

131

Can the superheater be shut off and the boiler worked

☒

eparately

☒

Diameter

☒

Length

☒

Thickness of shell plates

☒

Material

☒

Description of longitudinal joint

☒

Diam. of rivet

☒

les

☒

Pitch of rivets

☒

Working pressure of shell by rules

☒

Diameter of flue

☒

Material of flue plates

☒

Thickness

☒☒

stiffened with rings

☒

Distance between rings

☒

Working pressure by rules

☒

End plates: Thickness

☒

How stayed

☒☒☒☒

orking pressure of end plates

☒

Area of safety valves to superheater

☒

Are they fitted with easing gear

☒☒☒

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

This boiler has been constructed under Special Survey, the materials & workmanship good & efficient.

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.	19
Special	£	When received,	19
Donkey Boiler Fee ...	£		
Travelling Expenses (if any) £			

See Machinery Report attached

A.G. Dearden.

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

Committee's Minute

TUES. JUN 12 1906

Assigned

See Minute on attached report



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