

REPORT ON BOILERS.

No. 66575
WED. SEP. -2. 1914

Received at London Office

SEP 1 1914

Writing Report 1st May 1914 When handed in at Local Office

191

Port of Newcastle-on-Tyne

Survey held at Newcastle

Date, First Survey 3rd Dec 1913 Last Survey 24th Aug 1914

Book.

(Number of Visits)

Gross 206
Net 78

on the

P. S. John Donovan

Built at Wellington Quay

By whom built

J. J. Eltringham & Co

When built 1914

nes made at

By whom made

J. J. Eltringham & Co 3301 When made 1914

rs made at

Hebburn

By whom made

Palmer & Co No. 767

When made 1914

tered Horse Power

Owners

R Hastie & Sons

Port belonging to North Shields

L TITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY—Manufacturers of Steel

J. J. Eltringham & Co

er for record

S

Total Heating Surface of Boilers

1345

Is forced draft fitted

no

No. and Description of

ers One, single-ended

Working Pressure

180 lbs

Tested by hydraulic pressure to 360 lbs

Date of test 29-4-14

of Certificate 8650

Can each boiler be worked separately

✓

Area of fire grate in each boiler

48 sq ft

No. and Description of

valves to each boiler

2 direct spring

Area of each valve

4.908

Pressure to which they are adjusted

185 lbs

they fitted with easing gear

Yes

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

✓

least distance between boilers or uptakes and bunkers or woodwork

12"

Mean dia. of boilers 12' 9 3/4" Length 10' - 3"

rial of shell plates

Steel

Thickness

1 1/2"

Range of tensile strength 24 1/2 - 32

Are the shell plates welded or flanged

no

rip. of riveting: cir. seams

Lap

long. seams

SBS Y. Rivet

Diameter of rivet holes in long. seams

1 1/8"

Pitch of rivets

7 1/2"

6/16 plates or width of butt straps

16 3/8"

Per centages of strength of longitudinal joint

rivets 87.5

Working pressure of shell by

1/4 194 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

7" x 1 1/8"

No. and Description of Furnaces in each

3 - plain

Material

Steel

Outside diameter

40 3/8"

Length of plain part

top 75"

Thickness of plates

crown 49 1/2"

bottom 164"

ription of longitudinal joint

Welded

No. of strengthening rings

✓

Working pressure of furnace by the rules

183 lbs

Als: Material

Steel

Thickness: Sides

5/8"

Back

2 1/32"

Top

5/8"

Bottom

7/8"

Pitch of stays to ditto: Sides 9" x 8 1/4" Back 9" x 9"

9" x 8 1/4" If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

181 lbs

Material of stays

Steel

Diameter at

smallest part

6 1/2"

least part 2.03"

Area supported by each stay

8 1/2"

Working pressure by rules

225 lbs

End plates in steam space: Material

Steel

Thickness

1 1/2"

of stays 19" x 17"

How are stays secured

n. w.

Working pressure by rules

184 lbs

Material of stays

Steel

Diameter at

smallest part

supported by each stay

323"

Working pressure by rules

196 lbs

Material of Front plates at bottom

Steel

Thickness

1"

Material of

er back plate

Steel

Thickness

1"

Greatest pitch of stays

13"

Working pressure of plate by rules

214 lbs

Diameter of tubes

8 1/2"

of tubes 4 3/4" x 4 5/8"

Material of tube plates

Steel

Thickness: Front

1"

Back

3/4"

Mean pitch of stays

9 3/8"

Pitch across wide

r spaces

14"

Working pressures by rules

182 lbs

Girders to Chamber tops: Material

Steel

Depth and thickness of

er at centre

8 1/2" x 1 3/4"

Length as per rule

37 1/2"

Distance apart

9"

Number and pitch of Stays in each

2 - 8 1/4"

king pressure by rules

213 lbs

Superheater or Steam chest: how connected to boiler

none

Can the superheater be shut off and the boiler worked

rately

✓

Diameter

✓

Length

✓

Thickness of shell plates

✓

Material

✓

Description of longitudinal joint

✓

Diam. of rivet

✓

Pitch of rivets

✓

Working pressure of shell by rules

✓

Diameter of flue

✓

Material of flue plates

✓

Thickness

✓

fitted with rings

✓

Distance between rings

✓

Working pressure by rules

✓

End plates: Thickness

✓

How stayed

✓

king pressure of end plates

✓

Area of safety valves to superheater

✓

Are they fitted with easing gear

✓

Palmer's Shipbuilding & Iron Co. Ltd.

The foregoing is a correct description,

J. Cameron

Manager, Boiler Shop

Manufacturer.

Is the approved plan of boiler forwarded herewith

yes

Total No. of visits

18 +

During progress of

work in shops - -

1913

1914

Dec. 3

9.12.17

24 Jan

9.2.28

3 Feb

2.19 Mar

Is the approved plan of boiler forwarded herewith

yes

During erection on

board vessel - -

See Machinery Report

Total No. of visits

18 +

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

This main boiler has been constructed under special survey & the materials and workmanship are found to be good

Survey Fee

£

When applied for

191

Travelling Expenses (if any) £

per machinery Report

When received

191

Committee's Minute

signed

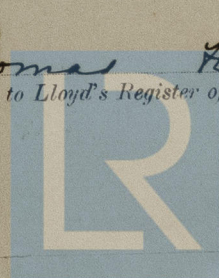
FRI. SEP. 11. 1914

Thomas

Field & Co

Cooper

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

Lloyd's Register
Foundation

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