

## REPORT ON BOILERS.

No. 52893

Received at London Office

THUR. 28 NOV 1907

Date of writing Report

19

When handed in at Local Office

26 NOV 1907

Port of

Newcastle on Tyne

No. in Survey held at

S. Shields

Date, First Survey

Last Survey

19<sup>th</sup> Nov 1907

Reg. Book.

on the

S. S. "Harport"

(Number of Visits)

Gross 3986

Net 3503

Master

J. H. Holman

Built at

S. Shields

By whom built

J. Readhead &amp; Sons

When built 1907.11

Engines made at

S. Shields

By whom made

J. Readhead &amp; Sons

when made

1907

Boilers made at

do

By whom made

do

when made

1907

Registered Horse Power

✓

Owners

J. C. Harrison Es.

Port belonging to

London

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

Sprey. hutchinson

(Letter for record

✓)

Total Heating Surface of Boilers

852  $\text{ft}^2$ 

Is forced draft fitted

h

No. and Description of

Boilers

One cyl. built S. End.

Working Pressure

90  $\text{lb}$ 

Tested by hydraulic pressure to

180  $\text{lb}$ 

Date of test 30 9 07

No. of Certificate

7602

Can each boiler be worked separately

✓

Area of fire grate in each boiler

24  $\text{ft}^2$ 

No. and Description of

safety valves to each boiler

Two Spring

Area of each valve

7  $\text{in}^2$ 

Pressure to which they are adjusted

90  $\text{lb}$ 

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

0.24

Mean dia. of boilers

10'-0"

Length 10'-0"

Material of shell plates

Steel

Thickness

5/8"

Range of tensile strength

28/32 T.

Are the shell plates welded or flanged

h

Descrip. of riveting: cir. seams

L. D. R.

long. seams

L. D. R.

Diameter of rivet holes in long. seams

1 1/16"

Pitch of rivets 4 1/2"

Lap of plates or width of butt straps

5 1/2"

Per centages of strength of longitudinal joint

rivets 71%

plate 72%

Working pressure of shell by

rules

97  $\text{lb}$ 

Size of manhole in shell

16 x 12"

Size of compensating ring

8 x 7 1/2"

No. and Description of Furnaces in each

boiler

2. Plain

Material

S.

Outside diameter

36"

Length of plain part

top 6'-6"

bottom "

Thickness of plates

crown 1/2"

bottom 5/8"

Description of longitudinal joint

L. D. R.

No. of strengthening rings

1

Working pressure of furnace by the rules

95  $\text{lb}$ 

Combustion chamber

plates: Material

S.

Thickness: Sides

1/2"

Back

1/2"

Top

1/2"

Bottom

7/8"

Pitch of stays to ditto: Sides

8 1/2"

Back

8 1/2"

Top

9 1/2"

If stays are fitted with nuts or riveted heads

huts

Working pressure by rules

105  $\text{lb}$ 

Material of stays

I.

Diameter at

smallest part

1.99"

Area supported by each stay

72  $\text{in}^2$ 

Working pressure by rules

210  $\text{lb}$ 

End plates in steam space: Material

S.

Thickness

3/4"

Pitch of stays

16"

How are stays secured

D. N. W.

Working pressure by rules

106  $\text{lb}$ 

Material of stays

S.

Diameter at smallest part

2.57"

Area supported by each stay

256  $\text{in}^2$ 

Working pressure by rules

112  $\text{lb}$ 

Material of Front plates at bottom

S.

Thickness

1 1/16"

Material of

Lower back plate

S.

Thickness

1 1/16"

Greatest pitch of stays

15 x 11"

Working pressure of plate by rules

95  $\text{lb}$ 

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2"

Material of tube plates

S.

Thickness: Front

1 1/16"

Back

1 1/16"

Mean pitch of stays

13 1/2"

Pitch across wide

water spaces

13 1/2"

Working pressures by rules

93  $\text{lb}$ 

Girders to Chamber tops: Material

S.

Depth and thickness of

rider at centre

7 x 1 3/8"

Length as per rule

22 3/4"

Distance apart

9 1/2"

Number and pitch of Stays in each

2 - 7 1/2"

Working pressure by rules

210  $\text{lb}$ 

Superheater or Steam chest: how connected to boiler

huts

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 Readhead &amp; Sons Manufacturer.

Dates

of Survey

while

building

During progress of

work in shops - -

During erection on

board vessel - -

Please see Machinery report

Is the approved plan of boiler forwarded herewith

Yes.

Total No. of visits

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

The above Donkey Boiler has been constructed under Special  
 Survey. The material and workmanship employed therein  
 are sound and good. The Boiler has now been satisfactorily  
 fitted in the above vessel.

Survey Fee

... ..

£ 2 : 2 :

When applied for,

26 NOV 1907

Travelling Expenses (if any) £

:

:

When received,

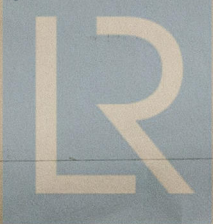
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Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. 29 NOV 1907

Assigned

See minute on  
attached report

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Lloyd's Register

FD 109-0145