

REPORT ON BOILERS

No. 13353

THUR. 21 NOV 1907

Received at London Office

of writing Report

19

When handed in at Local Office

4th Sept. 1907

Port of

WEST HARTLEPOOL

Date, First Survey

16th August

Last Survey

3rd October, 1907

No. in Survey held at

West Hartlepool

eg. Book.

on the

Screw Steamer

Pert^e in Store

(Number of Visits 19)

Gross

Tons

Net

ster

Built at

Bowling

By whom built

Scott & Co

When built 1892

ines made at

By whom made

when made

ilers made at West Hartlepool

By whom made

Central Marine & Works

when made 1907

gistered Horse Power

Owners

Port belonging to

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

D Colville & Son

etter for record

5

Total Heating Surface of Boilers

788 sq ft

Is forced draft fitted

No. and Description of

ilers

One Single Ended

Working Pressure 120 lb

Tested by hydraulic pressure to 240 lb

Date of test 3/10/07

o. of Certificate

3122

Can each boiler be worked separately

Area of fire grate in each boiler 29 sq ft

No. and Description of

ety valves to each boiler

2 direct Spring

Area of each valve 3.98

Pressure to which they are adjusted 123 lb

re they fitted with easing gear

yes

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

allest distance between boilers or uptakes and bunkers or woodwork

12"

Mean dia. of boilers 9'9"

Length 9'0"

aterial of shell plates

Steel

Thickness 1 1/16"

Range of tensile strength 27-30

Are the shell plates welded or flanged both

escrip. of riveting: cir. seams

long. seams

all chip all

Diameter of rivet holes in long. seams 15/16"

Pitch of rivets 3 1/4"

ap of plates or width of butt straps

10 1/4"

Per centages of strength of longitudinal joint

79.6

Working pressure of shell by

les

123 lb

Size of manhole in shell

15" x 12"

Size of compensating ring 31" x 27" x 1 1/4"

No. and Description of Furnaces in each

iller

Two Main

Material Steel

Outside diameter 36"

Length of plain part

5'10"

Thickness of plates

9 1/16"

escription of longitudinal joint

Welded

No. of strengthening rings

Working pressure of furnace by the rules 135 lb

Combustion chamber

ates: Material

Steel

Thickness: Sides

15/32"

Back 15/32"

Top 15/32"

Bottom 15/32"

Pitch of stays to ditto: Sides

7 1/2"

Back 7 1/2"

op 7 1/2"

If stays are fitted with nuts or riveted heads

Working pressure by rules 120 lb

Material of stays Steel Diameter at

allest part

1 1/8"

area supported by each stay 7 1/2"

Working pressure by rules 120 lb

End plates in steam space: Material

Steel

Thickness 1 1/16"

itch of stays

1 1/4"

How are stays secured

all nut

Working pressure by rules 120 lb

Material of stays Steel

Diameter at smallest part

1 1/8"

rea supported by each stay

14" x 14"

Working pressure by rules 135 lb

Material of Front plates at bottom

Steel

Thickness

1 1/16"

Material of

ower back plate

Steel

Thickness 1 1/16"

Greatest pitch of stays

11 1/2"

Working pressure of plate by rules

120 lb

Diameter of tubes

3"

itch of tubes

4 1/8" x 4 1/4"

Material of tube plates

Steel

Thickness: Front

1 1/16"

Back 10/16"

Mean pitch of stays

8 1/2" x 8 1/2"

Pitch across wide

ter spaces

12"

Working pressures by rules

126 lb

Girders to Chamber tops: Material

Steel

Depth and thickness of

End plates: Thickness

How stayed

orking pressure by rules

135 lb

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

les

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

End plates: Thickness

How stayed

stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Area of safety valves to superheater

Are they fitted with easing gear

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

The foregoing is a correct description,

FOR THE CENTRAL MARINE ENGINE WORKS.

Manufacturer.

John Williams

Dates

During progress of

1907 Aug. 16. 23. 27. 28.

Sept. 3. 11. 12. 14. 15. 19. 20. 21. 23. 27. 30.

Is the approved plan of boiler forwarded herewith

yes

Survey

work in shops - -

while

During erection on

Oct. 1. 2. 3.

board vessel - - -

uilding

Total No. of visits

19

GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c. Workmanship good.

This Boiler has been constructed under special survey in accordance with the approved Photo Print tested by hydraulic pressure to 240 lb and found tight and sound.

Survey Fee

...

£

2 : 13

When applied for,

4. 10. 1907

Travelling Expenses (if any) £

:

When received,

11. 10. 1907

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

Committee's Minute

FRI. 22 NOV 1907

Assigned



Lloyd's Register Foundation