

THUR. 23 JAN 1908

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# REPORT ON BOILERS.

Inv. No. 52917  
Sta. No. 23589

Port of Newcastle

Received at London Office

THUR. 23 JAN 1908

No. in  
Book.

Survey held at

Gateshead

Date, first Survey

Nov. 18

Last Survey

2nd Dec

1907

(Number of Visits 4)

Gross

686.49

Net

341.45

on the Steel screw steamer JOHN MILES

Master C. W. Bell

Built at

Sunderland

By whom built

S. P. Austin & Sons No. 245

When built

1908

Engines made at

Sunderland

By whom made

North Eastern Mar. E. E. Co

when made

1908

Engines made at

Gateshead

By whom made

Clarke Chapman & Co No. 27712

when made

1907

Registered Horse Power

Owners

Stephenson Clarke & Co

Port belonging to

London

## LONGITUDINAL BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

Enter for record

Total Heating Surface of Boilers

Is forced draft fitted

No. and Description of

Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of

of valves to each boiler

Area of each valve

Pressure to which they are adjusted

they fitted with easing gear

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

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets

Working pressure of shell by

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each

Material

Outside diameter

Length of plain part

top

Thickness of plates

crown

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber

Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Diameter at

Smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space: Material

Thickness

How are stays secured

Working pressure by rules

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of

Over back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide

Working pressures by rules

Girders to Chamber tops: Material

Depth and thickness of

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

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

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. 1

Description Cross-tube

Manufacturers of steel

J. Spence & Sons

at

Gateshead

By whom made

Clarke Chapman & Co

When made

1907

Where fixed

Working pressure

90 lbs

Tested by hydraulic pressure to

180 lbs

Date of test

2/12/07

No. of Certificate

7636

Fire grate area

18 1/2

Description of safety valves

Direct spring

of safety valves

ONE

Area of each

9.62

Pressure to which they are adjusted

90 lb

If fitted with easing gear

yes

If steam from main boilers can

enter the donkey boiler

No

Dia. of donkey boiler

5'-9"

Length

12'-0"

Material of shell plates

Steel

Thickness

7/16"

Range of tensile

length 28.32

Descrip. of riveting long. seams

S. Lap

Dia. of rivet holes

7/8"

Whether punched or drilled

drilled

Pitch of rivets

3 3/16"

of plating

4 1/2"

Per centage of strength of joint

Rivets 73.1

Plates 72.5

Working pressure of shell by rules

107 lbs

Thickness of shell crown plates

9/16"

Radius of do.

5'-0"

No. of Stays to do.

5

Dia. of stays

1 3/4"

Diameter of furnace Top

4'-5 1/2"

Bottom

4'-10"

Length of furnace

4'-11"

Thickness of furnace plates

19/32"

Description of joint

S. Lap

Working pressure of furnace by rules

107 lbs

Thickness of furnace crown

7/16"

Radius of do.

5'-0"

Stayed by

as above

Thickness of water tubes

7/16"

Diameter of uptake 15"

Thickness of uptake plates

7/16"

for CLARKE, CHAPMAN & Co. LTD.

The foregoing is a correct description,

Robert Scope

Manufacturer.

Director.

During progress of

work in shops - -

1907. Nov. 18. 29. Dec. 2

During erection on

board vessel - - -

Total No. of visits

4

Is the approved plan of main boiler forwarded herewith

"

"

"

donkey

"

Lloyd's Register

W 883 + 6132



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

*This donkey boiler has been constructed under special survey and the materials and workmanship are found to be good.*

*Donkey Boiler efficiently secured & its mounting examined & the safety Valve has been admitted to its working pressure under steam.*

The amount of Entry Fee... £  
 Special ... £  
 Donkey Boiler Fee ... £  
 Travelling Expenses (if any) £

When applied for.

*When received*  
*12/1/88*  
*19*

*Thomas Field, Agent.*  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

TUES. 28 JAN 1908

Assigned



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 Foundation