

Rpt. 5.

REPORT ON BOILERS.

No. 25146
TUES. 11 JUN 1907

Port of

Glasgow.

Received at London Office.

19

No. in Survey held at
Reg. Book.

Annan.

Date, first Survey

15 March

Last Survey

12 April

1907

(Number of Visits)

on the

Donkey boiler for Messrs D. Rowan & Co. No. 471.

Tons

Gross
Net

Master

Built at

By whom built

When built

Engines made at

Glasgow

By whom made

D. Rowan & Co. (No. 471)

when made

1907

Boilers made at

do

By whom made

do

when made

Registered Horse Power

Owners

Port belonging to

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

(Letter 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

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of

safety valves to each boiler

Area of each valve

Pressure to which they are adjusted

Are 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

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets
plate

Working pressure of shell by

rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each

boiler

Material

Outside diameter

Length of plain part

top
bottom

Thickness of plates

crown
bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber

plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

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

Pitch of stays

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

Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide

water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and thickness of

girder at centre

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

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

VERTICAL DONKEY BOILER—

No. 10424 Description

Gross tube

Manufacturers of steel

Wm Beardmore & Co

Made at

Annan

By whom made

Bochran & Co.

When made

1907

Where fixed

Sto Rchold

Working pressure

80

tested by hydraulic pressure to

160

No. of Certificate

8888

Fire grate area

6

Description of safety valves

No. of safety valves

2

Area of each

3.14

Pressure to which they are adjusted

8.5

If fitted with easing gear

Yes

If steam from main boilers can

enter the donkey boiler

No.

Dia. of donkey boiler

3.6

Length

7.6

Material of shell plates

steel

Thickness

3/8

Range of tensile

strength

27-32

Descrip. of riveting long. seams

double

Dia. of rivet holes

23/32

Whether punched or drilled

drilled

Pitch of rivets

Lap of plating

3.5

Per centage of strength of joint

84

Working pressure of shell by rules

123 lbs

Thickness of shell crown plates

1/2

Radius of do.

3.6

No. of Stays to do.

Thickness of furnace plates

1/2

Description of joint

riveted

Working pressure of furnace by rules

159 lbs

Thickness of furnace crown

plates

1/2

Stayed by

✓

Diameter of uptake

plates

1/2

Thickness of uptake plates

3/8

Thickness of water tubes

1/16

The foregoing is a correct description,

Drawing No. 6266.

For COCHRAN & CO. ANNAN, 1907.

Manufacturer.

Dates

of Survey

while

building

During progress of

work in shops - -

During erection on

board vessel - - -

Total No. of visits

5

1907 Mar. 15 22 28 Apr 11 12

Is the approved plan of main boiler forwarded herewith

"

"

"

donkey

"

"

"

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GENERAL REMARKS

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

This boiler has been made under survey, the materials & workmanship are good

Certificate (if required) to be sent to

| | | | | |
|--------------------------------|---|---|-----|-------------------|
| The amount of Entry Fee... | £ | : | : | When applied for, |
| Special | £ | : | : | 19 |
| Donkey Boiler Fee ... | £ | 2 | : 2 | When received, |
| Travelling Expenses (if any) £ | : | : | : | 19 |

Committee's Minute

Glasgow 22 APR 1907

Assigned

Deferred for completion

Retain

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



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