

Rpt. 5.

REPORT ON BOILERS.

No. 24155

Port of *Glasgow*

Received at London Office

TUES. NOV 20 1906

No. in
Reg. Book.

Survey held at

Aman

Date, first Survey

31st May

Last Survey

21st June 1906(Number of Visits *5*)

on the

*Donkey Boiler for Sandpump Dredger*Tons ^{Gross}
_{Net}

Master

Built at

Newfrew

By whom built

McLennan & Co. Ltd 436

When built

1906

Engines made at

By whom made

when made

Boilers made at

By whom made

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. 10323

Description

Lowry Tube

Manufacturers of steel

Glydebridge Coy

Made at

Aman

By whom made

Boehrer & Co. Ltd

When made

1906

Where fixed

Working pressure

tested by hydraulic pressure to

200

Date of test

21/6/06

No. of Certificate

8140

Fire grate area

Description of safety valves

No. of safety valves

Area of each

Pressure to which they are adjusted

If fitted with easing gear

If steam from main boilers can

enter the donkey boiler

Dia. of donkey boiler

4' 6"

Length

10' 6"

Material of shell plates

Steel

Thickness

13"

Range of tensile

strength

24/32 tons

Descrip. of riveting long. seams

Double rivet

Dia. of rivet holes

35"

Whether punched or drilled

Drilled

Pitch of rivets

29/16

Lap of plating

3 3/8"

Per centage of strength of joint

Rivets *440*Plates *40*

Working pressure of shell by rules

113 lb

Thickness of shell crown plates

9/16"

Radius of do.

4' 9"

No. of Stays to do.

none

Dia. of stays

4"

Diameter of furnace Top

3' 4"

Bottom

3' 9"

Length of furnace

4' 8"

Thickness of furnace plates

9/16"

Description of joint

riveted

Working pressure of furnace by rules

135 lb

Thickness of furnace crown

plates

9/16"

Radius of do.

4' 9"

Stayed by

none

Thickness of water tubes

3/8"

The foregoing is a correct description,

Manufacturer.

Dates

During progress of

work in shops - - -

During erection on

board vessel - - -

Total No. of visits

*1906: May 31 June 5 8 10 21**5*

Is the approved plan of main boiler forwarded herewith

" donkey "

" "

Foundation

W1487-0160

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

This Boiler has been made under survey, the materials & workmanship are of good description and the Hydraulic pressure proved satisfactory.

Certificate (if required) to be sent to

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

Committee's Minute

Glasgow - 2 JUL 1908

Assigned

Deferred for completion.

Retain-

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

Clyde District



Lloyd's Register
 Foundation