

Rpt. 5.

REPORT ON BOILERS.

File No. 51894.

Hull 1865-6
Loz 69269

TUES. NOV 13 1906
SAT. JAN 12 1907

Port of *Newcastle-on-Tyne.*

Received at London Office.

No. in Survey held at

South Shields.

Date, first Survey

9 July

Last Survey

3 Nov 1906

Reg. Book.

(Number of Visits. 15.)

54 Cuff on the

mess. Goole S.B. Co

'Margaret'

Master

Built at

Goole

By whom built

Goole S.B. Co

When built

1906

Engines made at

Farmouth

By whom made

W. T. Crabtree & Co

when made

1906

Boiler made at

South Shields

By whom made

J. T. Eltringham & Co

when made

1906

Registered Horse Power

Owners

Lancashire S. F. Co

Port belonging to

Fluewood

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

J. Spencer & Sons.

(Letter for record

5.)

Total Heating Surface of Boilers

1483 sq. ft.

Is forced draft fitted

No

No. and Description of

Boilers

One, S.B. Cyl. multitubular.

Working Pressure

180 lbs.

Tested by hydraulic pressure to

360 lbs.

Date of test

3/11/06.

No. of Certificate

7356

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

54 sq. ft.

No. and Description of

safety valves to each boiler

Two Spring

Area of each valve

7.07 sq. in.

Pressure to which they are adjusted

185 lbs.

Are they fitted with easing gear

Yes

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

10 1/2"

Mean dia. of boilers

12'-10 29/32"

Length

10'-6"

Material of shell plates

Steel

Thickness

1 3/32"

Range of tensile strength

28 3/4-32

Are the shell plates

flanged

Descrip. of riveting: cir. seams

Lap, 10R.

long. seams

UBS. 1R

Diameter of rivet holes in long. seams

1 1/16"

Pitch of rivets

4"

Lap of plates width of butt straps

16 3/4"

Per centages of strength of longitudinal joint

85%

Working pressure of shell by

rules

185 lbs.

Size of manhole in shell

16 x 12"

Size of compensating ring

7 1/2 x 1 3/32"

No. and Description of Furnaces in each

boiler

Three plain

Material

steel

Description of longitudinal joint

UBS. 5R.

No. of strengthening rings

Yes

Working pressure of furnace by the rules

187 lbs.

Combustion chamber

plates: Material

Steel

Thickness: Sides

1/16"

Back

3/32"

Top

1/16"

Bottom

3/4"

Pitch of stays to ditto: Sides

9 1/2 x 9 1/2"

Back

Top

10 x 8"

If stays are fitted with nuts or riveted heads

nuts.

Working pressure by rules

182 lbs.

Material of stays

Steel

smallest part

1 1/32"

Area supported by each stay

40.25 sq. in.

Working pressure by rules

197 lbs.

End plates in steam space: Material

steel

Pitch of stays

14 x 17"

How are stays secured

Welded

Working pressure by rules

185 lbs.

Material of stays

steel

Area supported by each stay

289 sq. in.

Working pressure by rules

192 lbs.

Material of Front plates at bottom

Steel

Thickness

1"

Lower back plate

Steel

Thickness

29/32"

Greatest pitch of stays

15 x 8 3/4"

Working pressure of plate by rules

188 lbs.

Diameter of tubes

3 1/2"

Pitch of tubes

4 3/4 x 4 5/8"

Material of tube plates

Steel

Thickness: Front

1 1/16"

Back

3/32"

Mean pitch of stays

11 3/4"

Pitch across wide

water spaces

14 1/4"

Working pressures by rules

184 lbs.

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

6" (2 plates)

Length as per rule

2'-6 1/2"

Distance apart

8"

Number and pitch of Stays in each

Two, 10"

Working pressure by rules

183 lbs.

Superheater or Steam chest: how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Yes

Diameter

Yes

Length

Yes

Thickness of shell plates

Yes

Material

Yes

Description of longitudinal joint

Yes

Diam. of rivet

holes

Yes

Pitch of rivets

Yes

Working pressure of shell by rules

Yes

Diameter of flue

Yes

Material of flue plates

Yes

Thickness

If stiffened with rings

Yes

Distance between rings

Yes

Working pressure by rules

Yes

End plates: Thickness

Yes

How stayed

Yes

Working pressure of end plates

Yes

Area of safety valves to superheater

Yes

Are they fitted with easing gear

Yes

VERTICAL DONKEY BOILER—

No.

Description

Manufacturers of steel

Made at

By whom made

When made

Where fixed

Working pressure

tested by hydraulic pressure to

No. of Certificate

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

Length

Material of shell plates

Thickness

Range of tensile

strength

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

Lap of plating

Per centage of strength of joint

Rivets

Working pressure of shell by rules

Thickness of shell crown plates

Radius of do.

No. of Stays to do.

Dia. of stays

Diameter of furnace Top

Bottom

Length of furnace

Thickness of furnace plates

Description of joint

Working pressure of furnace by rules

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

This boiler has been constructed under Special Survey the materials & workmanship good & efficient.

The bed plate, connecting rods, link motion, condenser and general fittings of engine examined. Crank gauge tried.

The engine and boiler fitted on board. tried under steam, and found satisfactory, and being now in a good and safe working condition are eligible in my opinion to be classed with the notation of *L.M.C.1.07* in the Register Book.

James Barclay

It is submitted that
this vessel is eligible for
THE RECORD *L.M.C.1.07.*

ms
14.1.07
14.1.07

Certificate (if required) to be sent to

The amount of Entry Fee... £ :
Special £ 4 : 19
Donkey Boiler Fee ... £ :
Travelling Expenses (if any) £ :

When applied for.

12 NOV 1908

When received.

11.12.06

H. G. Dearden.

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

TUES. JAN 15 1907

Committee's Minute

Assigned

+ L.M.C.1.07

MACHINERY CERTIFICATE
WRITTEN.



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Foundation