

## REPORT ON BOILERS.

No. 22659

MUN. 27 JUN 1910  
27 JUN 1910

Received at London Office

Date of writing Report

10

When handed in at Local Office

16<sup>th</sup> June 1910 Port of Hull

No. in Survey held at

Hull

Date, First Survey

Sep 1/09.

Last Survey

10<sup>th</sup> June

1910

Reg. Book.

15 Sept. on the

Steel S. S. Dewsbury

(Number of Visits

Gross 1631  
Net 878

Master

Built at

Hull

By whom built

Messrs Earles &amp; Co. Ltd.

When built 1910

Engines made at

By whom made

Messrs

when made 1910

Boilers made at

Hull

By whom made

Earles &amp; Co. Ltd.

when made 1910

Registered Horse Power

Owners

Great Central Railway

Port belonging to

Grimsby

## MULTITUBULAR BOILERS

MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Messrs W. Beardmore &amp; Co.

(Letter for record

(a) ✓

Total Heating Surface of Boilers

530 sq

Is forced draft fitted

No

No. and Description of

Boilers

One cyl. Multi. Single End

Working Pressure 100 lbs

Tested by hydraulic pressure to 200 lbs

Date of test 14.3.10

No. of Certificate

1736

Can each boiler be worked separately

Area of fire grate in each boiler

26 sq

No. and Description of

safety valves to each boiler

Two Spring

Area of each valve

4.9 sq

Pressure to which they are adjusted 100 lbs

Are they fitted with easing gear

Yes

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

No

Smallest distance between boilers or uptakes and bunkers or woodwork

15"

Int

Mean dia. of boilers 8'-9"

Length 8'-0"

Material of shell plates

Steel

Thickness

5/8"

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

L.D.

long. seams

D.B.S.D.R.

Diameter of rivet holes in long. seams

7/8"

Pitch of rivets

3 5/8"

Lap of plates or width of butt straps

8 1/2"

Per centages of strength of longitudinal joint

rivets 76.2

Working pressure of shell by

plate 75.8

rules 127 lbs

Size of manhole in shell

19" x 15"

Size of compensating ring

42" x 7/8"

No. and Description of Furnaces in each

boiler Two plain

Material Steel

Outside diameter 2'-8"

Length of plain part

top 5'-8 3/4"

bottom 5'-8 3/4"

Thickness of plates

crown 1/2"

bottom 1/2"

Description of longitudinal joint

Welded

No. of strengthening rings

0

Working pressure of furnace by the rules

123 lbs

Combustion chamber

plates: Material Steel

Thickness: Sides

5/8"

Back 5/8"

Top 5/8"

Bottom 5/8"

Pitch of stays to ditto: Sides

8 3/4"

Back

9" x 8 1/2"

Top 9 1/2"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules 176 lbs

Material of stays

Iron

Diameter at

smallest part

13/16"

Area supported by each stay

76.5 sq

Working pressure by rules

176 lbs

End plates in steam space: Material

Steel

Thickness

13/16"

Pitch of stays

14" x 13"

How are stays secured

D. Nuts

Working pressure by rules

162 lbs

Material of stays

Iron

Diameter at smallest part

2 1/8"

Area supported by each stay

182 sq

Working pressure by rules

138 lbs

Material of Front plates at bottom

Steel

Thickness

13/16"

Material of

Lower back plate

Steel

Thickness

13/16"

Greatest pitch of stays

9" x 8 1/2"

Working pressure of plate by rules

297 lbs

Diameter of tubes

3"

Pitch of tubes

4 1/4" x 4 1/4"

Material of tube plates

Steel

Thickness: Front

13/16"

Back

25/32"

Mean pitch of stays

10 5/8"

Pitch across wide

water spaces

13"

Working pressures by rules

140 lbs

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

6" x 1 1/4"

Length as per rule

1'-7 3/32"

Distance apart

9 1/2"

Number and pitch of Stays in each

one

Working pressure by rules 141 lbs

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

The foregoing is a correct description.

F. J. Salethorpe

Manufacturer.

Dates of Survey  
During progress of work in shops - -  
while building - -  
During erection on board vessel - -

See Machinery Report.

Is the approved plan of boiler forwarded herewith

yes

Total No. of visits

## GENERAL REMARKS

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

This boiler has been

constructed under special survey in accordance with the Rules the materials and workmanship are good. The boiler tested by hydraulic pressure, secured on board, tested under steam and found satisfactory. Reliable in my opinion to be classed, with notation

Survey Fee ... £

When applied for, 19

Travelling Expenses (if any) £

When received, 19

L.M. 6610 as per machinery report.

James Barclay

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

Committee's Minute

TUES. 28 JUN 1910

Assigned

See Minute on

attached to

Hull 22659

002630-002638-0114

Lloyd's Register Foundation