

## REPORT ON BOILERS.

No. 29791

Received at London Office

WED. 1 MAR 1911

of Safety

Date of writing Report

19

When handed in at Local Office

28/2/11 Port of Glasgow

Date, First Survey

28<sup>th</sup> Feb 1911

Last Survey

17<sup>th</sup> Feb 1911

Reg. Book.

No. in Survey held at

Dumbarton

on the

Steel Ss Angora

Master

John W. Robertson

Built at

Dumbarton

By whom built

Wm Denny Bros

When built

1911

Engines made at

Dumbarton

By whom made

Denny &amp; Co

when made

1911

Boilers made at

do

By whom made

do

when made

1911

Registered Horse Power

Owners

British India Steam Nav Co

Port belonging to

Glasgow.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel W Beardmore &amp; Co. Lanarkshire

Letter for record

N

Total Heating Surface of Boilers see other sheet

Is forced draft fitted

yes

No. and Description of

Boilers 4 single ended

Working Pressure

150 lbs

Tested by hydraulic pressure to

300 lbs

Date of test

24.8.10

No. of Certificate

10556

Can each boiler be worked separately

yes

Area of fire grate in each boiler

No. and Description of

safety valves to each boiler 2 spring loaded

Area of each valve

Pressure to which they are adjusted

150 lbs.

Are they fitted with easing gear

yes

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

yes

Smallest distance between boilers

or uptakes and bunkers or woodwork

15"

Mean dia. of boilers

15' 0"

Length

11' 6"

Material of shell plates

steel

Thickness

1 5/32"

Range of tensile strength

28/32 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

DR lap

long. seams

DBS-TR

Diameter of rivet holes in long. seams

1 3/16"

Pitch of rivets

8"

Lap of plates or width of butt straps

17 5/8" x 1"

Per centages of strength of longitudinal joint

rivets 89.2

Working pressure of shell by

plate 85.1

Rules

171

Size of manhole in shell

17 x 13

Size of compensating ring

36 x 36 x 1 5/32"

No. and Description of Furnaces in each

boiler 3 Morrison

Material

steel

Outside diameter

49 1/2"

Length of plain part

top

Thickness of plates

crown

1 1/2"

bottom

1 1/2"

Description of longitudinal joint

welded

No. of strengthening rings

yes

Working pressure of furnace by the rules

153

Combustion chamber

plates: Material

steel

Thickness: Sides

7/16"

Back

9/16"

Top

13/16"

Bottom

13/16"

Pitch of stays to ditto: Sides

8 1/2 x 8 1/2"

Back

8 1/2 x 8 1/2"

Top

7 1/2 x 7"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

151

Material of stays

iron

Diameter at

smallest part

3.98"

smallest part

1.41"

Area supported by each stay

72

Working pressure by rules

156

End plates in steam space: Material

steel

Thickness

7/8"

Pitch of stays

16 x 14 7/8"

How are stays secured

DN &amp; W

Working pressure by rules

152

Material of stays

steel

Diameter at

smallest part

3.98"

Area supported by each stay

238"

Working pressure by rules

173

Material of Front plates at bottom

steel

Thickness

13/16"

Material of

Lower back plate

steel

Thickness

11/16"

Greatest pitch of stays

14 1/2"

Working pressure of plate by rules

187

Diameter of tubes

2 1/2"

Pitch of tubes

3 3/4 x 3 3/4"

Material of tube plates

steel

Thickness: Front

27/32"

Back

3/4"

Mean pitch of stays

8 3/4"

Pitch across wide

water spaces

13 1/2"

Working pressures by rules

150

Girders to Chamber tops: Material

steel

Depth and thickness of

girder at centre

2 plates 7 x 3 3/4"

Length as per rule

28 1/2"

Distance apart

7 1/2"

Number and pitch of Stays in each

3 of 7"

Working pressure by rules

153

Superheater or Steam chest: how connected to boiler

none

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

yes

yes

stiffened with rings

yes

Distance between rings

yes

Working pressure by rules

yes

End plates: Thickness

yes

How stayed

yes

Are they fitted with easing gear

yes

yes

Working pressure of end plates

yes

Area of safety valves to superheater

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes

The foregoing is a correct description,

Wm Denny &amp; Co

Manufacturers

Dates

During progress of

see accompanying

Is the approved plan of boiler forwarded herewith

of Survey

work in shops - - -

Machinery report.

Total No. of visits

while

During erection on

building

board vessel - - -

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

See report on Engines and DE boilers.

Survey Fee

...

See Wacky

When applied for.

19.

Travelling Expenses (if any)

see report.

When received.

19.

on Shipping.

Harry Clarke

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

Committee's Minute

Glasgow

28 FEB. 1911

Assigned

See minute on Machinery Report.



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