

Rpt. 5a.

## REPORT ON BOILERS.

No. 45540

Received at London Office

21 APR 1926

Date of writing Report

7<sup>th</sup> April 1926

When handed in at Local Office

7.4.1926

Port of

Glasgow

No. in  
Reg. Book.

Survey held at

Renfrew

Date, First Survey

30.6.25

Last Survey

2<sup>nd</sup> April 1926

on the

"Lord Willingdon" (Butter suction dredger).

Number of Visits

44

Gross

864

Tons

Net 358

Master

Built at

Renfrew

By whom built

W<sup>m</sup> Simons & Co

Yard No.

674

When built

1926

Engines made at

Renfrew

By whom made

W<sup>m</sup> Simons & Co

Engine No.

674

When made

1926

Boilers made at

Renfrew

By whom made

W<sup>m</sup> Simons & Co

Boiler No.

674

When made

1926

Nominal Horse Power

Owners

High Commissioners of India

Port belonging to

Glasgow

## MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Steel Co. of Scotland

(Letter for Record

S.

Total Heating Surface of Boilers

9934.4 sq ft

Is forced draught fitted

Yes

Coal or Oil fired

Oil

No. and Description of Boilers

4 - Multitubular

Working Pressure

180

Tested by hydraulic pressure to

320

Date of test

2-10-25

No. of Certificate

16942

Can each boiler be worked separately

Yes

Area of Firegrate in each Boiler

67.5 sq ft

No. and Description of safety valves to each boiler

2 - Spring loaded (high lift)

Area of each set of valves per boiler

per Rule 9.5

as fitted 14.14

Pressure to which they are adjusted

185

Are they fitted with easing gear

Yes

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

None

Smallest distance between boilers or uptakes and bunkers or woodwork

Well clear

Is oil fuel carried in the double bottom under boilers

No

Smallest distance between shell of boiler and tank top plating

Open floors

Is the bottom of the boiler insulated

No

Largest internal dia. of boilers

14'-10"

Length

11'-9"

Shell plates: Material

S.

Tensile strength

28-32.

Thickness

1 3/32"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end J.R.

inter. fil

long. seams

T.R.D.B.S.

Diameter of rivet holes in

circ. seams 1 5/16"

long. seams 1 1/4"

Pitch of rivets

4.301"

8 15/16"

Percentage of strength of circ. end seams

plate 69.5

rivets 43

Percentage of strength of circ. intermediate seam

plate 86

rivets 86.7

Percentage of strength of longitudinal joint

plate 86

rivets 86.7

combined 88

Working pressure of shell by Rules

180

Thickness of butt straps

outer 5 9/16"

inner 1 3/64"

No. and Description of Furnaces in each Boiler

3 - Deighton

Material

S.

Tensile strength

26-30

Smallest outside diameter

46 1/4"

Length of plain part

top 19 1/32"

bottom 19 1/32"

Thickness of plates

crown 19 1/32"

bottom 19 1/32"

Description of longitudinal joint

weld

Dimensions of stiffening rings on furnace or c.c. bottom

fil

Working pressure of furnace by Rules

186

End plates in steam space: Material

S.

Tensile strength

26-30

Thickness

1 7/64"

Pitch of stays

20" x 20 3/4"

How are stays secured

J.N.

Working pressure by Rules

180

Tube plates: Material

front S.

back S.

Tensile strength

26-30

Thickness

27/32"

23/32"

Mean pitch of stay tubes in nests

9.8"

Pitch across wide water spaces

14" x 7 3/4"

Working pressure

front 180

back

Girders to combustion chamber tops: Material

S.

Tensile strength

28-32

Depth and thickness of girder

at centre

8 1/4" x 1 1/2"

Length as per Rule

31 3/4"

Distance apart

9 3/8"

No. and pitch of stays

in each

2-9 3/4"

Working pressure by Rules

185

Combustion chamber plates: Material

S.

Tensile strength

26-30

Thickness: Sides

11/16"

Back

11/16"

Top

11/16"

Bottom

49/64"

Pitch of stays to ditto: Sides

9 3/4" x 9 3/8"

Back

9 3/4" x 9"

Top

9 3/4" x 9 3/8"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

181

Front plate at bottom: Material

S.

Tensile strength

26-30

Thickness

27/32"

Lower back plate: Material

S.

Tensile strength

26-30

Thickness

57/64"

Pitch of stays at wide water space

14 3/4" x 9 3/4"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

218

Main stays: Material

S.

Tensile strength

28-32

Diameter

At body of stay, or over threads

3 1/4"

No. of threads per inch

6

Area supported by each stay

20 3/4" x 20"

Working pressure by Rules

193

Screw stays: Material

S.

Tensile strength

26-30

Diameter

At turned off part, or over threads

1 3/4"

No. of threads per inch

9

Area supported by each stay

9 3/4" x 9 3/8"

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Assigned See accompanying mach.<sup>y</sup> report

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