

REPORT ON BOILERS.

No. 64133

31/7/41

Received at London Office

Date of writing Report

19

When handed in at Local Office

26. 7. 1941

Port of

Glasgow

No. in Survey held at

Glasgow

Reg. Book.

Date, First Survey

25. 10. 40

Last Survey

14. 7. 1941

1941

(Number of Visits 16)

Gross
Tons
Net

Master

Built at

Thorne

By whom built

R Dunstan & Co

Yard No.

360

When built 19

Engines made at

Paisley

By whom made

M'Kie, Baxter Ltd

Engine No.

1329

When made 1941

Boilers made at

Glasgow

By whom made

John Thompson (Maine Boilers) Ltd

Boiler No.

5158

When made 1941

Nominal Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

(Letter for Record S)

Total Heating Surface of Boilers

1356

Is forced draught fitted

Coal or Oil fired

No. and Description of Boilers

1 SB

Working Pressure 200 lb

Tested by hydraulic pressure to

350

Date of test 14-7-41

No. of Certificate 20796

Can each boiler be worked separately

Area of Firegrate in each Boiler

36.5

No. and Description of safety valves to each boiler

2 1/2" Langle

Area of each set of valves per boiler

per Rule 7.9

as fitted 9.8

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

Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Largest internal dia. of boilers

11' 6"

Length

11'

Shell plates: Material

Steel

Tensile strength 29-33

Thickness

1 1/2"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end DR Lf.

long. seams

TR DBS

Diameter of rivet holes in

circ. seams 1 1/8"

long. seams 1 1/8"

Pitch of rivets

3 1/2"

Percentage of strength of circ. end seams

plate 67.85

rivets 43.68

Percentage of strength of circ. intermediate seam

plate 85.48

rivets 92.47

Percentage of strength of longitudinal joint

plate 85.48

rivets 92.47

combined 89.45

Working pressure of shell by Rules

202

Thickness of butt straps

outer 25/32

inner 29/32

No. and Description of Furnaces in each Boiler

2 Morrison

Material

Steel

Tensile strength

26-30

Smallest outside diameter

3' 5 3/8"

Length of plain part

top 19/32

bottom 19/32

Thickness of plates

crown 19/32

bottom 19/32

Description of longitudinal joint

Welded

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

Working pressure of furnace by Rules

End plates in steam space: Material

Steel

Tensile strength

26-30

Thickness

1 1/2"

Pitch of stays 14 x 13 1/2"

How are stays secured

Double nut

Working pressure by Rules

Tube plates: Material

front Steel

back Steel

Tensile strength

26-30

Thickness

7/8"

3/4"

Mean pitch of stay tubes in nests

8' 8"

Pitch across wide water spaces

13 1/4"

Working pressure

front 7/8"

back 3/4"

Girders to combustion chamber tops: Material

Steel

Tensile strength

28-32

Depth and thickness of girder

at centre 20 8 1/2 x 7/8

Length as per Rule

2' 6"

Distance apart

8"

No. and pitch of stays

in each 3 - 7 1/2"

Working pressure by Rules

Combustion chamber plates: Material

Steel

Tensile strength

26-30

Thickness: Sides

1/16"

Back

1/16"

Top

19/32

Bottom

1/16"

Pitch of stays to ditto: Sides

7 1/2 x 8"

Back

8 1/2 x 8 1/2"

Top

7 1/2 x 8"

Are stays fitted with nuts or riveted over

Yes

Working pressure by Rules

Front plate at bottom: Material

Steel

Tensile strength

26-30

Thickness

7/8"

Lower back plate: Material

Steel

Tensile strength

26-30

Thickness

13/16"

Pitch of stays at wide water space

13 1/4"

Are stays fitted with nuts or riveted over

Yes

Working Pressure

Main stays: Material

Steel

Tensile strength

28-32

Diameter

At body of stay, or Over threads

2 1/2"

No. of threads per inch

6

Area supported by each stay

Working pressure by Rules

Screw stays: Material

Steel

Tensile strength

26-30

Diameter

At turned off part, or Over threads

1 5/8" & 1 1/2"

No. of threads per inch

9

Area supported by each stay

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