

Rpt. 5a.

REPORT ON BOILERS.

No. 21498.

DONKEY.

Received at London Office

23 NOV 1944

Date of writing Report

When handed in at Local Office

21 - 11 - 1944

Port of

Aberdeen

No. in Reg. Book.

Surrey held at Aberdeen

Date, First Survey 20th September 1943 Last Survey 16th November 1944

(Number of Visits 21)

Gross Tons

Net

Built at Sunderland

By whom built

Sir James Laing & Sons Ltd

A/M S

Yard No. 764

When built 1944

Engines made at

Wallsend

By whom made

N. E. Mar. Engrs Co (1938) Ltd

TURB. N. 3091

When made 1944

Boilers made at

Aberdeen

By whom made

Hall Russell

A/M S/M 494

Boiler No. 2/43

When made 1944

Nominal Horse Power

Owners

The Admiralty

Port belonging to

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Colvilles Ltd.

(Letter for Record

S.

Total Heating Surface of Boilers

(2) 4160 square ft.

Is forced draught fitted

Yes

Coal or Oil fired

Oil

No. and Description of Boilers

Two single ended

Working Pressure

180 lbs

Tested by hydraulic pressure to

320 lbs

Date of test

1-8-44

No. of Certificate

1159

Can each boiler be worked separately

Yes

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Two Improved High Lift

Area of each set of valves per boiler

per Rule

6.4 sq ft

as fitted

4.9 sq ft

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

Is oil fuel carried in the double bottom under boilers

Yes

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Yes

Largest internal dia. of boilers

13' 3 1/2"

Length

11' 4 2/3"

Shell plates: Material

S

Tensile strength

29/33 tons

Thickness

1 3/8"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end

D. R. S.

long. seams

T. R. D. B. S.

Diameter of rivet holes in

circ. seams

1 3/16"

long. seams

1 3/16"

Pitch of rivets

3 5/8"

8 3/16"

Percentage of strength of circ. end seams

plate

64.24

rivets

44.3

Percentage of strength of circ. intermediate seam

plate

85.49

rivets

91.9

Percentage of strength of longitudinal joint

plate

85.49

rivets

91.9

combined

89.3

Thickness of butt straps

outer

7/8"

inner

1"

No. and Description of Furnaces in each Boiler

3 Beighton

C. F.

Material

S

Tensile strength

26/30 tons

Smallest outside diameter

3' 1 1/4"

Length of plain part

top FRONT 4 1/16"

bottom BACK 10 1/2"

Thickness of plates

crown

1/2"

bottom

1/2"

Description of longitudinal joint

Weld.

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

None

End plates in steam space: Material

S

Tensile strength

26/30 tons

Thickness

1 5/32"

Pitch of stays 19" + 1 1/2"

How are stays secured

Nuts & washers inside + outside

Tube plates: Material

front

S

back

S

Tensile strength

26/30 tons

Thickness

1 3/16"

1 1/16"

Mean pitch of stay tubes in nests

11 1/4" + 4 1/2"

Pitch across wide water spaces

13 1/2"

Girders to combustion chamber tops: Material

S

Tensile strength

29/33 tons

Depth and thickness of girder

at centre

2 - 8 3/8" x 13 1/16"

Length as per Rule

2' 8"

Distance apart

10"

No. and pitch of stays

in each

2 - 10"

Combustion chamber plates: Material

S

Tensile strength

26/30 tons

Thickness: Sides

2 1/32"

Back

1 1/16"

Top

2 3/32"

Bottom

2 1/32"

Pitch of stays to ditto: Sides

10" x 8"

Back

10" + 4 1/2"

Top

10" x 10"

Are stays fitted with nuts or riveted over

Nuts

Front plate at bottom: Material

S

Tensile strength

26/30 tons

Thickness

1 3/16"

Lower back plate: Material

S

Tensile strength

26/30 tons

Thickness

2 1/32"

Pitch of stays at wide water space

15"

Are stays fitted with nuts or riveted over

Nuts on margin stays

Main stays: Material

S

Tensile strength

26/32 tons

Diameter

At body of stay

2 7/8"

Over threads

✓

No. of threads per inch

6

Screw stays: Material

S

Tensile strength

26/30 tons

Diameter

At turned off part

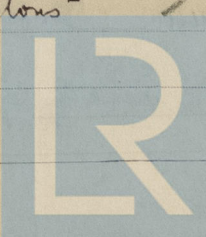
1 3/4"

Over threads

✓

No. of threads per inch

9



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Are the stays drilled at the outer ends No ✓ Margin stays: Diameter { At turned off part, 1 1/8 x 2 ✓ 1 3/4
or
Over threads

No. of threads per inch 9 ✓

Tubes: Material S. ✓ External diameter { Plain 2 1/2 ✓
Stay 2 1/2 ✓ Thickness { 5/16 ✓ 3/8 ✓ No. of threads per inch 9 ✓

Pitch of tubes 3 3/4 x 3 3/4 ✓ Manhole compensation: Size of opening in shell plate 20 1/2 x 16 1/2 ✓ Section of compensating ring 9" x 1" ✓ No. of rivets and diameter of rivet holes 36 - 1 3/8 ✓

Outer row rivet pitch at ends 8 3/16 ✓ Depth of flange if manhole flanged 3 1/4 ✓ Steam Dome: Material None ✓

Tensile strength ✓ Thickness of shell ✓ Description of longitudinal joint ✓

Diameter of rivet holes ✓ Pitch of rivets ✓ Percentage of strength of joint { Plate ✓
Rivets ✓

Internal diameter ✓ Thickness of crown ✓ No. and diameter of stays ✓ Inner radius of crown ✓

How connected to shell ✓ Size of doubling plate under dome ✓ Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell ✓

Type of Superheater None Manufacturers of { Tubes
Steel forgings
Steel castings

Number of elements ✓ Material of tubes ✓ Internal diameter and thickness of tubes ✓

Material of headers ✓ Tensile strength ✓ Thickness ✓ Can the superheater be shut off and the boiler be worked separately ✓

Area of each safety valve ✓ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler ✓

Pressure to which the safety valves are adjusted ✓ Are the safety valves fitted with easing gear ✓

tubes ✓ forgings and castings ✓ and after assembly in place ✓ Hydraulic test pressure: ✓

valves fitted to free the superheater from water where necessary ✓

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes

The foregoing is a correct description,

Manufacturer.

Dates of Survey { During progress of work in shops - - Sept 20, Oct 20, Nov 18, Dec 17, Jan 19, Feb 19, Mar 19, Apr 19, May 19, June 19, July 19, Aug 19, Sept 19, Oct 19, Nov 19, Dec 19, Jan 20, Feb 20, Mar 20, Apr 20, May 20, June 20, July 20, Aug 20, Sept 20, Oct 20, Nov 20, Dec 20, Jan 21, Feb 21, Mar 21, Apr 21, May 21, June 21, July 21, Aug 21, Sept 21, Oct 21, Nov 21, Dec 21, Jan 22, Feb 22, Mar 22, Apr 22, May 22, June 22, July 22, Aug 22, Sept 22, Oct 22, Nov 22, Dec 22, Jan 23, Feb 23, Mar 23, Apr 23, May 23, June 23, July 23, Aug 23, Sept 23, Oct 23, Nov 23, Dec 23, Jan 24, Feb 24, Mar 24, Apr 24, May 24, June 24, July 24, Aug 24, Sept 24, Oct 24, Nov 24, Dec 24, Jan 25, Feb 25, Mar 25, Apr 25, May 25, June 25, July 25, Aug 25, Sept 25, Oct 25, Nov 25, Dec 25, Jan 26, Feb 26, Mar 26, Apr 26, May 26, June 26, July 26, Aug 26, Sept 26, Oct 26, Nov 26, Dec 26, Jan 27, Feb 27, Mar 27, Apr 27, May 27, June 27, July 27, Aug 27, Sept 27, Oct 27, Nov 27, Dec 27, Jan 28, Feb 28, Mar 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