

# REPORT ON BOILERS.

No. 33990

Received at London Office

11 JUL 1944

Port of

Sunderland

Sunderland

Date, First Survey 11 Feb

Last Survey 1944

EMPIRE MARS

(Number of Visits 12)

Gross

Net

Sunderland

Yard No. 155 When built 1944

Manchester

By whom made

Metropolitan-Vickers Elec. Co. Ltd

Engine No. 4393 When made 1945

Sunderland

By whom made

G. Clark (1938) Ltd

Boiler No. 3046 When made 1944

Owners War Transport

Port belonging to

DONKEY

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Appleby, Radcliff & Steel Ltd

(Letter for Record S)

Manufacturers of Steel

4160 ft

Is forced draught fitted Yes

Coal or Oil fired

Oil fired

Total Heating Surface of Boilers

No. and Description of Boilers

Two single ended multitubular return tube marine

Working Pressure

180 lb/sq in

Tested by hydraulic pressure to

320 lb/sq in

Date of test

14/4/44

No. of Certificate

4543

Can each boiler be worked separately

Yes and

Area of Firegrate in each Boiler

6.640

No. and Description of safety valves to each boiler

2 - 2 1/2" Imp. High Lift

Area of each set of valves per boiler

as fitted

4.950

Pressure to which they are adjusted

185 lb/sq in

Are they fitted with easing gear

Yes and

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

No and

Smallest distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers

Yes and

Smallest distance between shell of boiler and tank top plating

25" and

Is the bottom of the boiler insulated

Yes and

Largest internal dia. of boilers

13' - 3 1/16"

Length

11' - 6"

Shell plates: Material

Steel

Tensile strength

29/33

Thickness

13/32

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end

35/8" - 8 3/16"

Long. seams

T. R. D. B. S.

Diameter of rivet holes in

circ. seams

13/16"

Pitch of rivets

Percentage of strength of circ. end seams

plate

64.2

Percentage of strength of circ. intermediate seam

43.9

Percentage of strength of longitudinal joint

plate

85.4

Percentage of strength of longitudinal joint

combined

89.5

Thickness of butt straps

outer

1"

No. and Description of Furnaces in each Boiler

Three Corrugated (Leighton)

Material

Steel

Tensile strength

26/30

Smallest outside diameter

37 1/4"

Length of plain part

top

bottom

Thickness of plates

crowd

1/2"

Description of longitudinal joint

hulled

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

Material

Steel

Tensile strength

26/30

Thickness

15/32

Pitch of stays

19" x 14 1/2"

End plates in steam space

Material

Steel

Tensile strength

26/30

Thickness

13/16"

Pitch of stays

11" x 16"

How are stays secured

Double nuts

Tube plates: Material

front

Steel

Tensile strength

26/30

Thickness

13/16"

11" x 16"

Mean pitch of stay tubes in nests

11 1/4" x 4 1/2"

Pitch across wide water spaces

Material

Steel

Tensile strength

28/32

Depth and thickness of girder

Girders to combustion chamber tops: Material

Material

Steel

Tensile strength

28/32

Distance apart

10"

No. and pitch of stays

at centre

8 3/8" x 15 1/8"

Length as per Rule

32"

Combustion chamber plates: Material

Material

Steel

Tensile strength

23/32

Bottom

21/32

Tensile strength

26/30

Thickness: Sides

21/32

Back

11/16"

Top

23/32

Bottom

21/32

hubs on unequal st

back

Pitch of stays to ditto: Sides

8" x 10"

Back

10 1/2" x 4 1/2"

Top

10" x 10"

Are stays fitted with nuts or riveted over

nuts on inner end, caulked

an outside back

shell

Front plate at bottom: Material

Material

Steel

Tensile strength

26/30

Thickness

13/16"

Lower back plate: Material

Material

Steel

Tensile strength

26/30

Thickness

21/32

Pitch of stays at wide water space

15 1/2" x 4 1/2"

Are stays fitted with nuts or riveted over

nuts

Material

Steel

Tensile strength

28/32

Main stays: Material

Material

Steel

Tensile strength

26/30

Thickness

13/16"

No. of threads per inch

6

Tensile strength

26/30

Diameter

At body of stay

2 1/8"

Over threads

Material

Steel

Tensile strength

26/30

Thickness

13/16"

No. of threads per inch

9

Screw stays: Material

Material

Steel

Tensile strength

26/30

Thickness

13/16"

No. of threads per inch

9

Diameter

At turned off part

1 3/4"

Over threads

Material

Steel

Tensile strength

26/30

Thickness

13/16"

No. of threads per inch

9



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Lloyd's Register Foundation



Are the stays drilled at the outer ends

no.

Margin stays: Diameter { At turned off part, 1 1/8" or Over threads 1 1/8" + 2"

No. of threads per inch 9.

Tubes: Material S.D. Steel

External diameter { Plain 2 1/2" Stay 2 1/2"

Thickness { 9 lbs. 5/16" + 3/8"

No. of threads per inch 9.

Pitch of tubes 3 3/4" x 3 3/4"

shell plate 20 1/2" x 16 1/2"

Section of compensating ring 9" x 1 1/8"

Manhole compensation: Size of opening 36 - 1 3/16"

Outer row rivet pitch at ends 8 3/16"

Depth of flange if manhole flanged 3 1/4"

Steam Dome: Material

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

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

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

Area of each safety valve

Are the safety valves fitted with easing gear

Pressure to which the safety valves are adjusted

Hydraulic test pressure:

tubes

forgings and castings

and after assembly in place

Are drain cocks or

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. and GEORGE CLARK (1933) LTD

The foregoing is a correct description,

Manufacturer.

Dates of Survey { During progress of work in shops - -

11.2.45, 12.2.45, 13.2.45, 14.2.45, 15.2.45, 16.2.45, 17.2.45, 18.2.45, 19.2.45, 20.2.45, 21.2.45, 22.2.45, 23.2.45, 24.2.45, 25.2.45, 26.2.45, 27.2.45, 28.2.45, 29.2.45, 30.2.45, 31.2.45, 1.3.45, 2.3.45, 3.3.45, 4.3.45, 5.3.45, 6.3.45, 7.3.45, 8.3.45, 9.3.45, 10.3.45, 11.3.45, 12.3.45, 13.3.45, 14.3.45, 15.3.45, 16.3.45, 17.3.45, 18.3.45, 19.3.45, 20.3.45, 21.3.45, 22.3.45, 23.3.45, 24.3.45, 25.3.45, 26.3.45, 27.3.45, 28.3.45, 29.3.45, 30.3.45, 31.3.45, 1.4.45, 2.4.45, 3.4.45, 4.4.45, 5.4.45, 6.4.45, 7.4.45, 8.4.45, 9.4.45, 10.4.45, 11.4.45, 12.4.45, 13.4.45, 14.4.45, 15.4.45, 16.4.45, 17.4.45, 18.4.45, 19.4.45, 20.4.45, 21.4.45, 22.4.45, 23.4.45, 24.4.45, 25.4.45, 26.4.45, 27.4.45, 28.4.45, 29.4.45, 30.4.45, 31.4.45, 1.5.45, 2.5.45, 3.5.45, 4.5.45, 5.5.45, 6.5.45, 7.5.45, 8.5.45, 9.5.45, 10.5.45, 11.5.45, 12.5.45, 13.5.45, 14.5.45, 15.5.45, 16.5.45, 17.5.45, 18.5.45, 19.5.45, 20.5.45, 21.5.45, 22.5.45, 23.5.45, 24.5.45, 25.5.45, 26.5.45, 27.5.45, 28.5.45, 29.5.45, 30.5.45, 31.5.45, 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25.4.46, 26.4.46, 27.4.46, 28.4.46, 29.4.46, 30.4.46, 31.4.46, 1.5.46, 2.5.46, 3.5.46, 4.5.46, 5.5.46, 6.5.46, 7.5.46, 8.5.46, 9.5.46, 10.5.46, 11.5.46, 12.5.46, 13.5.46, 14.5.46, 15.5.46, 16.5.46, 17.5.46, 18.5.46, 19.5.46, 20.5.46, 21.5.46, 22.5.46, 23.5.46, 24.5.46, 25.5.46, 26.5.46, 27.5.46, 28.5.46, 29.5.46, 30.5.46, 31.5.46, 1.6.46, 2.6.46, 3.6.46, 4.6.46, 5.6.46, 6.6.46, 7.6.46, 8.6.46, 9.6.46, 10.6.46, 11.6.46, 12.6.46, 13.6.46, 14.6.46, 15.6.46, 16.6.46, 17.6.46, 18.6.46, 19.6.46, 20.6.46, 21.6.46, 22.6.46, 23.6.46, 24.6.46, 25.6.46, 26.6.46, 27.6.46, 28.6.46, 29.6.46, 30.6.46, 31.6.46, 1.7.46, 2.7.46, 3.7.46, 4.7.46, 5.7.46, 6.7.46, 7.7.46, 8.7.46, 9.7.46, 10.7.46, 11.7.46, 12.7.46, 13.7.46, 14.7.46, 15.7.46, 16.7.46, 17.7.46, 18.7.46, 19.7.46, 20.7.46, 21.7.46, 22.7.46, 23.7.46, 24.7.46, 25.7.46, 26.7.46, 27.7.46, 28.7.46, 29.7.46, 30.7.46, 31.7.46, 1.8.46, 2.8.46, 3.8.46, 4.8.46, 5.8.46, 6.8.46, 7.8.46, 8.8.46, 9.8.46, 10.8.46, 11.8.46, 12.8.46, 13.8.46, 14.8.46, 15.8.46, 16.8.46, 17.8.46, 18.8.46, 19.8.46, 20.8.46, 21.8.46, 22.8.46, 23.8.46, 24.8.46, 25.8.46, 26.8.46, 27.8.46, 28.8.46, 29.8.46, 30.8.46, 31.8.46, 1.9.46, 2.9.46, 3.9.46, 4.9.46, 5.9.46, 6.9.46, 7.9.46, 8.9.46, 9.9.46, 10.9.46, 11.9.46, 12.9.46, 13.9.46, 14.9.46, 15.9.46, 16.9.46, 17.9.46, 18.9.46, 19.9.46, 20.9.46, 21.9.46, 22.9.46, 23.9.46, 24.9.46, 25.9.46, 26.9.46, 27.9.46, 28.9.46, 29.9.46, 30.9.46, 31.9.46, 1.10.46, 2.10.46, 3.10.46, 4.10.46, 5.10.46, 6.10.46, 7.10.46, 8.10.46, 9.10.46, 10.10.46, 11.10.46, 12.10.46, 13.10.46, 14.10.46, 15.10.46, 16.10.46, 17.10.46, 18.10.46, 19.10.46, 20.10.46, 21.10.46, 22.10.46, 23.10.46, 24.10.46, 25.10.46, 26.10.46, 27.10.46, 28.10.46, 29.10.46, 30.10.46, 31.10.46, 1.11.46, 2.11.46, 3.11.46, 4.11.46, 5.11.46, 6.11.46, 7.11.46, 8.11.46, 9.11.46, 10.11.46, 11.11.46, 12.11.46, 13.11.46, 14.11.46, 15.11.46, 16.11.46, 17.11.46, 18.11.46, 19.11.46, 20.11.46, 21.11.46, 22.11.46, 23.11.46, 24.11.46, 25.11.46, 26.11.46, 27.11.46, 28.11.46, 29.11.46, 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