

## REPORT ON BOILERS.

No. 84605

Received at London Office

17 AUG 1929

Date of writing Report

192

When handed in at Local Office

16.8.1929

Port of

Newcastle-on-Tyne

No. in Survey held at Reg. Book.

39227

on the

Killsend-on-Tyne New Steel S.S. Anglo-Saxon

Date First Survey

6 Feb.

Last Survey

15 Aug

1929

(Number of Visits

Gross

Tons

Net

Master

Built at

Sunderland

By whom built

Short Bros Ltd

Yard No.

1804

When built

1929

Engines made at

Killsend-on-Tyne

By whom made

North Eastern Marine &amp; Co. Ltd.

Engine No.

2694

When made

1929

Boilers made at

Killsend-on-Tyne

By whom made

North Eastern Marine &amp; Co. Ltd.

Boiler No.

2694

When made

1929

Nominal Horse Power

Owners

Kittling Producers Ltd

Port belonging to

London

MULTITUBULAR BOILERS MAIN, ~~AUXILIARY~~ OR DONKEY.

Manufacturers of Steel

Appleby &amp; Co. Ltd &amp; D. Colville &amp; Sons Ltd.

Total Heating Surface of Boilers

6276

Is forced draught fitted

yes

(Letter for Record

S. ✓

No. and Description of Boilers

Three single ended.

Tested by hydraulic pressure to

380

Date of test

11.4.29

No. of Certificate

366

Can each boiler be worked separately

yes

Area of Firegrate in each Boiler

16.9

No. and Description of safety valves to each boiler

5.5 Lockhart &amp; Co. Ltd

Area of each set of valves per boiler

(per Rule as fitted 2x2"

Pressure to which they are adjusted

225 lbs

Are they fitted with easing gear

yes

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

no

Smallest distance between boilers or uptakes and bunkers or woodwork

20"

Is oil fuel carried in the double bottom under boilers

no

Smallest distance between shell of boiler and tank top plating

20"

Is the bottom of the boiler insulated

yes

Largest internal dia. of boilers

13'-9 1/2"

Length

12'-0"

Thickness

1 1/2"

Are the shell plates welded or flanged

no

long. seams

T. R. D. B. S.

Diameter of rivet holes in

circ. seams

1 1/2"

Description of riveting: circ. seams

end

D. R.

Pitch of rivets

4"

Percentage of strength of circ. end seams

plate

rivets

64.1

Percentage of strength of circ. intermediate seam

plate

rivets

✓

Percentage of strength of longitudinal joint

plate

circ.

combined

88.25

Working pressure of shell by Rules

223.5 lbs

Thickness of butt straps

inner 1 1/2"

outer 1 3/4"

No. and Description of Furnaces in each Boiler

Three corrugated (Doughton)

3ap

Material

Steel

Tensile strength

26 to 30 tons

Smallest outside diameter

3'-2 1/4"

Length of plain part

top

bottom

Thickness of plates

crown

bottom

19/32"

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

none

End plates in steam space: Material

Steel

Tensile strength

26 to 30 tons

Thickness

1 1/2"

Pitch of stays

1-4" x 2-0 1/2"

How are stays secured

Double nuts

Working pressure by Rules

220.6 lbs

Tube plates: Material

front

back

Steel

Tensile strength

26 to 30 tons

Thickness

1"

Mean pitch of stay tubes in nests

8 1/2"

Pitch across wide water spaces

14 1/4" x 8 1/2"

Working pressure

front

back

220 lbs

Girders to combustion chamber tops: Material

Steel

Tensile strength

29 to 33 tons

Depth and thickness of girder

at centre

2 @ 9 1/4" x 3 1/4"

Length as per Rule

2'-9"

Distance apart

9"

No. and pitch of stays

in each

2 @ 9 1/4"

Working pressure by Rules

230 lbs.

Combustion chamber plates: Material

Steel

Tensile strength

26 to 30 tons

Thickness: Sides

3 1/4"

Back

3 1/4"

Top

3 1/4"

Bottom

1"

Pitch of stays to ditto: Sides

9 1/4" x 9"

Back

10" x 8 1/4"

Top

9 1/4" x 9"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

222 lbs.

Front plate at bottom: Material

Steel

Tensile strength

26 to 30 tons

Thickness

1"

Lower back plate: Material

Steel

Tensile strength

26 to 30 tons

Thickness

1 5/16"

Pitch of stays at wide water space

14 1/4" x 10"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

238 lbs.

Main stays: Material

Steel

Tensile strength

28 to 32 tons

Diameter

At body of stay,

3 1/2"

Over threads

3 3/4"

No. of threads per inch

6

Area supported by each stay

165.5 sq"

Working pressure by Rules

232 lbs.

Screw stays: Material

Steel

Tensile strength

26 to 30 tons

Diameter

At turned off part,

2"

Over threads

No. of threads per inch

9

Area supported by each stay

88.75 sq"



