

Rpt. 5a.

REPORT ON BOILERS.

No. 10858

29 MAY 1935

Received at London Office

Date of writing Report

25/5/35

When handed in at Local Office

25/5/35

Port of

TRIESTE

No. in Reg. Book.

Survey held at Monfalcone

Date, First Survey

Apr 16

Last Survey

May 16 1935

88366

on the M/S Auris

(Number of Visits five)

Gross 8030

Net 4783

Master

Built at Monfalcone

By whom built Cant. Rina. dell'Aviazione

No. 1129

When built 1935

Engines made at

Amsterdam

By whom made

N.V. Werkspoor

Engine No. 632

When made 1935

Boilers made at

Newcastle

By whom made

R. & W. Hawthorn Leslie & Co

Boiler No. 9705

When made 1935

Nominal Horse Power

154

Owners

Anglo Saxon Petroleum Co Ltd

Port belonging to

London

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel The Steel Co. of Scotland Ltd

(Letter for Record S)

Total Heating Surface of Boilers

2317 sq ft

Is forced draught fitted

yes

Coal or Oil fired

oil & wood gas

No. and Description of Boilers

One single ended

Working Pressure

180 lbs

Tested by hydraulic pressure to

320 lbs

Date of test

30.5.34

No. of Certificate

618

Can each boiler be worked separately

—

Area of Firegrate in each Boiler

—

No. and Description of safety valves to each boiler

2 - 3 1/4" dia direct spring loaded

Area of each set of valves per boiler

per Rule 14.82 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

—

Smallest distance between shell of boiler and

deck top plating 3'-0"

Is the bottom of the boiler insulated

yes

Largest internal dia. of boilers

14'-3 5/8"

Length

11'-6"

Shell plates: Material

Steel

Tensile strength

28-32 T/D

Thickness

1 3/16"

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end 2.9. Lap

long. seams

T.A. DBS.

Diameter of rivet holes in

circ. seams 1 1/4"

Pitch of rivets

3 1/2"

Percentage of strength of circ. end seams

plate 64.28

rivets 48.5

Percentage of strength of circ. intermediate seam

plate —

rivets —

Percentage of strength of longitudinal joint

plate 85.7

rivets 91

combined 89.7

Working pressure of shell by Rules

183 lbs

Thickness of butt straps

outer 29/32"

No. and Description of Furnaces in each Boiler

3 Morrison

Material

Steel

Tensile strength

26-30 T/D

Smallest outside diameter

3'-7 1/8"

Length of plain part

top /

Thickness of plates

crown 9/16"

Description of longitudinal joint

weld

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

none

Working pressure of furnace by Rules

189 lbs

End plates in steam space: Material

Steel

Tensile strength

26-30 T/D

Thickness

1 7/32"

Pitch of stays

17 3/4 x 21

How are stays secured

Double nut

Working pressure by Rules

183 lbs

Tube plates: Material

front Steel

Tensile strength

26-30 T/D

Thickness

15/16"

Mean pitch of stay tubes in nests

9"

Pitch across wide water spaces

13 3/4"

Working pressure

front 242 lbs

back 293 "

Girders to combustion chamber tops: Material

Steel

Tensile strength

28-32 T/D

Depth and thickness of girder

at centre

10" x 2 a 3/4"

Length as per Rule

2'-10 3/64"

Distance apart

10"

No. and pitch of stays

in each

3 a 8"

Working pressure by Rules

194 lbs

Combustion chamber plates: Material

Steel

Tensile strength

26-30 T/D

Thickness: Sides

45/64"

Back

45/64"

Top

45/64"

Bottom

7/8"

Pitch of stays to ditto: Sides

8" x 8"

Back

8" x 8"

Top

8" x 10"

Are stays fitted with nuts or riveted over

riveted

Working pressure by Rules

180 lbs

Front plate at bottom: Material

Steel

Tensile strength

26-30 T/D

Thickness

13/16"

Lower back plate: Material

Steel

Tensile strength

26-30 T/D

Thickness

27/32"

Pitch of stays at wide water space

15" x 8"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

200 lbs

Main stays: Material

Steel

Tensile strength

28-32 T/D

Diameter

At body of stay, or Over threads 3"

No. of threads per inch

6"

Area supported by each stay

372.75 sq ft

Working pressure by Rules

181 lbs

Screw stays: Material

Steel

Tensile strength

26-30 T/D

Diameter

At turned off part, or Over threads 1 1/2 x 1 5/8"

No. of threads per inch

9

Area supported by each stay

640 sq ft

