

REPORT ON BOILERS.

No. 49652

Received at London Office - 3 OCT 1929

Date of writing Report 28.9.1929 When handed in at Local Office 10.10.1929

Port of Glasgow

No. in Survey held at Dumbarton

Date, First Survey 12.10.28

Last Survey 24.9.1929

Reg. Book.

on the

H. V. "Amadale"

(Number of Visits 5781)

Gross 5066

Tons Net 3079

Master

Built at Dumbarton

By whom built

H. T. Denny & Bros. Ltd.

Yard No. 1223

When built 1929

Engines made at Dumbarton

By whom made

H. T. Denny & Bros. Ltd.

Engine No. 973

When made 1929

Boilers made at Dumbarton

By whom made

H. T. Denny & Bros. Ltd.

Boiler No. 973

When made 1929

Nominal Horse Power

Owners

Australind S. S. Co. Ltd.

Port belonging to

London

MULTITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Jas Dunlop & Co. Ltd.

(Letter for Record

S.)

Total Heating Surface of Boilers

1135 sq ft

Is forced draught fitted

No

Coal or Oil fired

oil

No. and Description of Boilers

1 - Multitubular

Working Pressure

125

Tested by hydraulic pressure to

238

Date of test

30.7.29

No. of Certificate

18378

Can each boiler be worked separately

Yes

Area of Firegrate in each Boiler

✓

No. and Description of safety valves to each boiler

2 - S. L. H. L.

Area of each set of valves per boiler

{ per Rule

7.94 sq ft

Pressure to which they are adjusted

130

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

Well clear

Is oil fuel carried in the double bottom under boilers

No

Smallest distance between shell of boiler and tank top plating

Well clear

Is the bottom of the boiler insulated

No

Largest internal dia. of boilers

11'-0"

Length

10'-1 1/2"

Shell plates: Material

S

Tensile strength

28-32

Thickness

2 1/32"

Are the shell plates welded or flanged

No

Description of riveting - circ. seams

and J. R.

None

long. seams

T. R. I. B. S.

Diameter of rivet holes in

{ circ. seams

7/8"

{ long. seams

3/4"

Pitch of rivets

2.993"

5 9/16"

Percentage of strength of circ. end seams

{ plate

70.83

{ rivets

60.15

Percentage of strength of circ. intermediate seam

{ plate

86.51

{ rivets

93

Percentage of strength of longitudinal joint

{ rivets

93

{ combined

91.6

Working pressure of shell by Rules

127

Thickness of butt straps

{ outer

1/2"

{ inner

5/8"

No. and Description of Furnaces in each Boiler

2 - Morrison

Material

S.

Tensile strength

26-30

Smallest outside diameter

38.4"

Length of plate part

{ top

1/16"

{ bottom

1/16"

Thickness of plates

{ common

1/16"

Description of longitudinal joint

weld

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

None

Working pressure of furnace by Rules

163

End plates in steam space: Material

S.

Tensile strength

26-30

Thickness

13/16"

Pitch of stays

16 1/4" x 14 5/8"

How are stays secured

J. N.

Working pressure by Rules

125

Tube plates: Material

{ front

S.

{ back

S.

Tensile strength

26-30

26-30

Thickness

13/16"

23/32"

Mean pitch of stay tubes in nests

10 1/4"

Pitch across wide water spaces

14"

Working pressure

{ front

232

{ back

173

Girders to combustion chamber tops: Material

S

Tensile strength

28-32

Depth and thickness of girder

at centre

7" x 1"

Length as per Rule

28 1/2"

Distance apart

8 1/8"

No. and pitch of stays

in each

2 - 8 1/8" x 9"

Working pressure by Rules

129

Combustion chamber plates: Material

S

Tensile strength

26-30

Thickness: Sides

17/32"

Back

9/16"

Top

17/32"

Bottom

17/32"

Pitch of stays to ditto: Sides

9 1/2" x 7 7/8"

Back

9 1/2" x 8 3/4"

Top

9" x 8 1/8"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

130

Front plate at bottom: Material

S

Tensile strength

26-30

Thickness

13/16"

Lower back plate: Material

S

Tensile strength

26-30

Thickness

1 1/16"

Pitch of stays at wide water space

14" x 14"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

Main stays: Material

S

Tensile strength

28-32

Diameter

{ At body of stay,

2"

{ Over threads

No. of threads per inch

9

Area supported by each stay

237

Working pressure by Rules

125

Screw stays: Material

S

Tensile strength

26-30

Diameter

{ At turned off part,

1 3/8"

{ Over threads

No. of threads per inch

9

Area supported by each stay

83

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