

RECEIVED

Rpt. 5a.

JUL 1951

REPORT ON BOILERS.

No. 108525

17 JUL 1951

Received at London Office

Date of writing Report

12. 7

1951

When handed in at Local Office

12. 7

1951

Port of

NEWCASTLE-ON-TYNE

No. in Survey held at

WALLSEND-ON-TYNE

Date, First Survey

13. 6. 51

Last Survey

12. 7

1951

Reg. Book.

on the

M/T SOYA-MARGARETA

(Number of Visits

4

Gross

Tons

Net

Built at

MALMO

By whom built

KOCKUMS MEKANISKA VERKSTADS AKTIEBOLAG

Yard No.

343

When built

Engines made at

By whom made

Engine No.

When made

Boilers made at

WALLSEND-ON-TYNE

By whom made

WALLSEND SLIPWAY & Eng. Co. Ltd

Boiler No.

438 B

When made

1951

Nominal Horse Power

3224/12 = 269 MN

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

COLVILLES L^{td}

(Letter for Record

S

Total Heating Surface of Boilers

2 x 1612 = 3224 sq ft

Is forced draught fitted

Coal or Oil fired

OIL

No. and Description of Boilers

2 SINGLE ENDED

Working Pressure

180 LBS/p

Tested by hydraulic pressure to

320 LBS/p

Date of test

6. 7. 51

No. of Certificate

1456

Can each boiler be worked separately

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Area of each set of valves per boiler

per Rule

Pressure to which they are adjusted

Are they fitted with easing gear

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 boiler's

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Largest internal dia. of boilers

145.67"

Length

137.8"

Shell plates

Material

MIL0 STEEL

Tensile strength

29/33 Tons/p

Thickness

31/32"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end

DR OVERLAP

long. seams

TR DOUBLE BUTT STRAP

Diameter of rivet holes in

circ. seams

1/32"

long. seams

Pitch of rivets

3.2"

7 7/16"

Percentage of strength of circ. end seams

plate

67.7

rivets

42.5

Percentage of strength of circ. intermediate seam

plate

86.1

rivets

86.7

Percentage of strength of longitudinal joint

plate

86.1

rivets

86.7

combined

89

WORKING PRESSURE OF SHELL BY RULES 181 LBS/p

Thickness of butt straps

outer

7/8"

inner

7/8"

No. and Description of Furnaces in each Boiler

Two CORRUGATED DEIGHTON TYPE

Material

MIL0 STEEL

Tensile strength

26/30 Tons/p

Smallest outside diameter

3'-8 1/2"

Length of plain part

top

bottom

Thickness of plates

crown

9/16"

bottom

Description of longitudinal joint

WELD

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

NONE

WORKING PRESSURE OF FURNACE BY RULES 183 LBS/p

End plates in steam space: Material

MIL0 STEEL

Tensile strength

26/30 Tons/p

Thickness

1 1/16"

Pitch of stays

17" x 15 3/4"

How are stays secured

ELECTRIC WELDED TO END PLATES

WORKING PRESSURE BY RULES 194 LBS/p

Tube plates: Material

front

MIL0 STEEL

back

Tensile strength

26/30 Tons/p

Thickness

1 1/16"

3/4"

Mean pitch of stay tubes in nests

9 13/16"

Pitch across wide water spaces

13 1/2"

WORKING PRESSURE { FRONT 238 LBS/p BACK 208 LBS/p

Girders to combustion chamber tops: Material

MIL0 STEEL

Tensile strength

29/33 Tons/p

Depth and thickness of girder

at centre

9 3/4" x 7/8"

Length as per Rule

2'-5"

Distance apart

8 1/2"

No. and pitch of stays

in each EW TO CC TOP WORKING PRESSURE BY RULES 189 LBS/p

Combustion chamber plates: Material

MIL0 STEEL

Tensile strength

26/30 Tons/p

Thickness: Sides

3/4"

Back

3/4"

Top

3/4"

Bottom

3/4"

Pitch of stays to ditto: Sides

9 1/2" x 8 1/2"

Back

10 1/4" x 9 3/4"

Top

GIRDERS EW

Are stays fitted with nuts or riveted over

No

Front plate at bottom: Material

MIL0 STEEL

Tensile strength

26/30 Tons/p

Thickness

1 1/16"

Lower back plate: Material

MIL0 STEEL

Tensile strength

26/30 Tons/p

Thickness

1 1/16"

Pitch of stays at wide water space

14"

Are stays fitted with nuts or riveted over

No

Main stays: Material

MIL0 STEEL

Tensile strength

28/32 Tons/p

Diameter

At body of stay

2 1/2"

Over threads

No. of threads per inch

EW TO END PLATES. AREA SUPPORTED 17" x 15 3/4" WP BY RULES 198 LBS/p

Screw stays: Material

MIL0 STEEL

Tensile strength

26/30 Tons/p

Diameter

At turned off part

1 5/8"

Over threads

No. of threads per inch

EW TO PLATES

AREA SUPPORTED 10 1/4" x 9 3/4" WP BY RULES 185 LBS/p

THROUGH SHELL ONLY

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