

Rpt.

Rpt. 5a.

REPORT ON BOILERS.

No. 108525

Date

No.

Reg.

411

Built

Own

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Add

Shipping.

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

R.g. Book.

on the

M/T SOYA-MARGARETA

(Number of Visits)

4

Tons

Gross

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 HP

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

Test on 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

of each set of valves per boiler

per Rule

as fitted

Pressure to which they are adjusted

Are they fitted with easing gear

If any 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 tank top plating

Is the bottom of the boiler insulated

Least internal dia. of boilers

145.67"

Length

137.8"

Material

MILD STEEL

Tensile strength

29/33 Tons/p

Thickness

3 1/32"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end

DR OVERLAP

Diam. of rivet holes in

circ. seams

1 1/32"

Pitch of rivets

3.2"

inter.

7 7/16"

Percentage of strength of circ. end seams

plate

67.7

ribs

Percentage of strength of circ. intermediate seam

plate

42.5

ribs

Percentage of strength of longitudinal joint

plate

86.1

ribs

86.7

combined

89

Thickness of butt straps

outer

7/8"

inner

7/8"

No. and Description of Furnaces in each Boiler

Two CORRUGATED DEIGHTON TYPE

Material

MILD 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 1/16"

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

MILD 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

MILD STEEL

back

Tensile strength

26/30 Tons/p

Thickness

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

MILD 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

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

GREEN EW

Are stays fitted with nuts or riveted over

No

Front plate at bottom: Material

MILD STEEL

Tensile strength

26/30 Tons/p

Thickness

1 1/16"

Lower back plate: Material

MILD 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

MILD STEEL

Tensile strength

28/32 Tons/p

Diameter

At body of stay

2 1/2"

Over threads

No. of threads per inch

EW to ENO PLATES

AREA SUPPORTED

17" x 5 3/4"

UP BY RULES

198 lbs/p

Screw stays: Material

MILD STEEL

Tensile strength

26/30 Tons/p

Diameter

At tapered off part

1 5/8"

No. of threads per inch

EW to ENO PLATES

AREA SUPPORTED

10 1/4" x 9 3/4"

UP BY RULES

185 lbs/p

Diameter

At tapered off part

1 5/8"

Over threads

No. of threads per inch

EW to ENO PLATES

AREA SUPPORTED

10 1/4" x 9 3/4"

UP BY RULES

185 lbs/p

Diameter

At tapered off part

1 5/8"

Over threads

No. of threads per inch

EW to ENO PLATES

AREA SUPPORTED

10 1/4" x 9 3/4"

UP BY RULES

185 lbs/p

Diameter

At tapered off part

1 5/8"

Over threads

No. of threads per inch

EW to ENO PLATES

AREA SUPPORTED

10 1/4" x 9 3/4"

UP BY RULES

185 lbs/p

Diameter

At tapered off part

1 5/8"

Over threads

No. of threads per inch

EW to ENO PLATES

AREA SUPPORTED

10 1/4" x 9 3/4"

UP BY RULES

185 lbs/p

Diameter

At tapered off part

1 5/8"

Over threads

No. of threads per inch

EW to ENO PLATES

AREA SUPPORTED

10 1/4" x 9 3/4"

UP BY RULES

185 lbs/p

Diameter

At tapered off part

1 5/8"

Over threads

No. of threads per inch

EW to ENO PLATES

AREA SUPPORTED

10 1/4" x 9 3/4"

UP BY RULES

185 lbs/p

Diameter

At tapered off part

1 5/8"

Over threads

No. of threads per inch

EW to ENO PLATES

AREA SUPPORTED

10 1/4" x 9 3/4"

UP BY RULES

185 lbs/p

Diameter

At tapered off part

1 5/8"

Over threads

No. of threads per inch

EW to ENO PLATES

AREA SUPPORTED

10 1/4" x 9 3/4"

5.A 108525.

Are the stays drilled at the outer ends

No

(At turned off part, 13/11)

A

10

Are the stays

No. of three

Tubes: M

Pitch of tub

shell plate

Outer row

Tensile stre

Diameter of

Internal dia

stays

How connect

of rivets in o

Type -

Number of e

Material of

the boiler be

Area of each

Pressure to

tubes

valves fitted

Have

Dates of Survey while building

Is this Boiler

GENERA

Construct

Society

The

The

Survey Fee

Travelling

Committee

assigned



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012369-012389-0097

A 108525

Are the stays drilled at the outer ends No ✓

Margin stays: Diameter { At turned off part, 1 3/4 ✓
Over threads

No. of threads per inch EW TO PLATES. AREA SUPPORTED BY EACH STAY 12 1/8" x 9 3/4" WORKING PRESSURE BY RULES 184 LBS/P

Tubes: Material HOT FINISHED SEAMLESS STEEL External diameter { Plain 2 1/2 ✓
(Stay) Thickness 9.03 ✓
5 1/16 ✓ No. of threads per inch 9 ✓

Pitch of tubes 3 3/4" x 3 3/4" WORKING PRESSURE BY RULES 189 LBS/P Manhole compensation: Size of opening in shell plate 17 1/2" x 13 1/2" Section of compensating ring ✓

No. of rivets and diameter of rivet holes EW TO PLATE

Outer row rivet pitch at ends ✓ Depth of flange if manhole flanged 3 9/16 ✓ Steam Dome: Material NONE ✓

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 NONE 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 ✓

The foregoing is a correct description,
FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED. Manufacturer.

Dates of Survey { During progress of (125) JUNE 13 19, JULY 1 & 6 1912.
work in shops - - -
while building { During erection on board vessel - - -

Are the approved plans of boiler and superheater forwarded herewith YES ✓
(If not state date of approval.)

Total No. of visits 4 ✓

Is this Boiler a duplicate of a previous case ✓ If so, state Vessel's name and Report No. ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Two boilers have been constructed under Special Survey, in accordance with the approved plan of the Society's Rules.

The materials & workmanship are good.

The boilers will be despatched to Malmo, Sweden to be installed on board.

Survey Fee 269/11. £ 51 : 18 : 0 When applied for, 16 JUL 1951

Travelling Expenses (if any) £ : : When received, 19

C. A. Orde
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



Rpt. 4c.

Date of writing

No. in Su
Reg. Book.

41109s . 0

Built at.....

Owners.....

Oil Engines m

Generators ma

No. of Sets.....

Is Set intended

OIL ENGINE

Maximum pres

Mean indicated
pressure

Is there a bear

Flywheel dia.

Crank Shaft,

Flywheel Sha

Are means pro

Are the cylind

Cooling Water

Lubricating O

Air Compress

Scavenging A

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Starting Air

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Pressure of st

If alternating

on and off.....

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PLANS.—A

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Addition

Assigned See F.E. mch. rph memo. 3104



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