

REPORT ON BOILERS.

No. 14213

Received at London Office

Date of writing Report 10.4.1925 When handed in at Local Office

192

Port of

Rotterdam

No. in Survey held at

Rotterdam

Date, First Survey

10-11-24.

Last Survey

16.2.

1925

Reg. Book.

on the Steel twin screw steamer "MARIANA"

(Number of Visits 13)

Gross 2682.

Tons Net 1443

Master

Built at

Rotterdam

By whom built

Rott Drogd. M.

Yard No.

96

When built

1925

Engines made at

Rotterdam

By whom made

Rott Drogd. M.

Engine No. 1032104

When made

1925

Boilers made at

Rotterdam

By whom made

Rott Drogd. M.

Boiler No. 192-95

When made

1925

Nominal Horse Power

236.

Owners

Curacaoche Scheep Ma

Port belonging to

Willemstad

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

Manufacturers of Steel

Elboms William Beardmore & Co Ltd

(Letter for Record

S)

Total Heating Surface of Boilers

4168.4

Is forced draught fitted

Yes

Coal or Oil fired

Oil

No. and Description of Boilers

2 Single ended Multitubular Marine boilers

Working Pressure

180 lbs

Tested by hydraulic pressure to

320 lbs

Date of test

31-1-25

No. of Certificate

808

Can each boiler be worked separately

Yes

Area of Firegrate in each Boiler

—

No. and Description of safety valves to each boiler

2 high lifting spring loaded.

Area of each set of valves per boiler

per Rule

as fitted

40 mm Dia

Pressure to which they are adjusted

100 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 donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork

over 3'0"

Is oil fuel carried in the double bottom under boilers

No

Smallest distance between shell of boiler and tank top plating

No tank

Is the bottom of the boiler insulated

Yes

Largest internal dia. of boilers

15'0"

Length

12'3"

Shell plates: Material

S.M. Steel

Tensile strength

28.32 tons

Thickness

1 3/8"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end

lap 2 x riv

long. seams

Double butt 2 x riv

Diameter of rivet holes in

circ. seams

1 1/16"

long. seams

1 1/16"

Pitch of rivets

3 1/16"

inter.

8 1/8"

Percentage of strength of circ. end seams

plate

62.9%

rivets

51.5%

Percentage of strength of circ. intermediate seam

plate

—

rivets

—

Percentage of strength of longitudinal joint

plate

85.4%

rivets

88.2%

combined

88.2%

Working pressure of shell by Rules

195 lbs

Thickness of butt straps

outer 7/8"

inner 1"

No. and Description of Furnaces in each Boiler

2 Monsons patent

Material

S.M. Steel

Tensile strength

26-30 tons

Smallest outside diameter

3'-11 1/8"

Length of plain part

top

bottom

Thickness of plates

crown

3 1/2"

Description of longitudinal joint

Welded

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

None

Working pressure of furnace by Rules

200 lbs

End plates in steam space: Material

S.M. Steel

Tensile strength

26-30 tons

Thickness

1 1/8"

Pitch of stays

17'x16"

How are stays secured

Screwed in plates and nutted outside

Working pressure by Rules

210 lbs

Tube plates: Material

front S.M. Steel

back S.M. Steel

Tensile strength

26-30 tons

Thickness

1 1/16"

Pitch of stays

17'x16"

Mean pitch of stay tubes in nests

8'-12"

Pitch across wide water spaces

14 1/4"

Working pressure

front 197 lbs

back 185 lbs

Girders to combustion chamber tops: Material

S.M. Steel

Tensile strength

28-32 tons

Depth and thickness of girder

at centre

8 1/2" x 2 x 3/4"

Length as per Rule

2'7 1/2"

Distance apart

8 1/2"

No. and pitch of stays

in each

2 at 10"

Working pressure by Rules

198 lbs

Combustion chamber plates: Material

S.M. Steel

Tensile strength

26-30 tons

Thickness: Sides

7/8"

Back

3/4"

Top

7/8"

Bottom

7/8"

Pitch of stays to ditto: Sides

9 1/4" x 10"

Back

8" x 7 1/4"

Top

10" x 8 1/2"

Are stays fitted with nuts or riveted over

Working pressure by Rules

107 lbs

Front plate at bottom: Material

S.M. Steel

Tensile strength

26-30 tons

Thickness

1 1/16"

Lower back plate: Material

S.M. Steel

Tensile strength

26-30 tons

Thickness

3/4"

Pitch of stays at wide water space

15 1/8"

Are stays fitted with nuts or riveted over

Fitted with nuts

Working Pressure

212 lbs

Main stays: Material

S.M. Steel

Tensile strength

26-30 tons

Diameter

At body of stay, 2 1/2"

or

Over threads 2 3/4"

No. of threads per inch

9

Area supported by each stay

2720"

Working pressure by Rules

203 lbs

Screw stays: Material

S.M. Steel

Tensile strength

26-30 tons

Diameter

At turned off part, 1 1/2"

or

Over threads 1 1/2"

No. of threads per inch

9

Area supported by each stay

975-62-850"

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COLL
AFTE
STEL

Working pressure by Rules ^{181 lbs} 207 lbs Are the stays drilled at the outer ends *No* ✓ Margin stays: Diameter { At turned off part, ^{1 7/8"} 1 7/8" or Over threads ^{1 1/4"} 1 1/4" ✓
No. of threads per inch ⁹ 9 ✓ Area supported by each stay ^{842"} 842" Working pressure by Rules ^{216 lbs} 216 lbs
Tubes: Material *Steel* ✓ External diameter { Plain ^{2 1/4"} 2 1/4" ✓ Thickness ^{8 1/2 L 5 1/2} 8 1/2 L 5 1/2 No. of threads per inch ⁹ 9 ✓
Pitch of tubes ^{4"} 4" ✓ Working pressure by Rules ^{207 lbs} 207 lbs Manhole compensation: Size of opening in shell plate ^{20 3/4 x 16 3/4"} 20 3/4 x 16 3/4" ✓ Section of compensating ring ^{8 1/2 x 1 1/8"} 8 1/2 x 1 1/8" ✓ No. of rivets and diameter of rivet holes ^{42 @ 1 1/16"} 42 @ 1 1/16" ✓
Outer row rivet pitch at ends ^{7"} 7" ✓ Depth of flange if manhole flanged ^{5 1/2"} 5 1/2" ✓ Steam Dome: Material *Steel* ✓
Tensile strength *Steel* ✓ Thickness of shell *Steel* ✓ Description of longitudinal joint *Steel* ✓
Diameter of rivet holes *Steel* ✓ Pitch of rivets *Steel* ✓ Percentage of strength of joint { Plate *Steel* ✓ Rivets *Steel* ✓
Internal diameter *Steel* ✓ Working pressure by Rules *Steel* ✓ Thickness of crown *Steel* ✓ No. and diameter of stays *Steel* ✓ Inner radius of crown *Steel* ✓ Working pressure by Rules *Steel* ✓
How connected to shell *Steel* ✓ Size of doubling plate under dome *Steel* ✓ Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell *Steel* ✓
Type of Superheater *Steel* ✓ Manufacturers of { Tubes *Steel* ✓ Steel castings *Steel* ✓
Number of elements *Steel* ✓ Material of tubes *Steel* ✓ Internal diameter and thickness of tubes *Steel* ✓
Material of headers *Steel* ✓ Tensile strength *Steel* ✓ Thickness *Steel* ✓ Can the superheater be shut off and the boiler be worked separately *Steel* ✓ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler *Steel* ✓
Area of each safety valve *Steel* ✓ Are the safety valves fitted with easing gear *Steel* ✓ Working pressure as per Rules *Steel* ✓ Pressure to which the safety valves are adjusted *Steel* ✓ Hydraulic test pressure: tubes *Steel* ✓, castings *Steel* ✓ and after assembly in place *Steel* ✓ Are drain cocks or valves fitted to free the superheater from water where necessary *Steel* ✓
Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with *Yes* ✓
The foregoing is a correct description, *Yes* ✓
Manufacturer. *Knape*

Dates of Survey { During progress of work in shops - ^{1914. 10/4, 11/12, 12/12, 1915. 1/16, 2/4, 2/11, 2/18, 2/25, 3/4, 3/11, 3/18, 3/25, 4/1, 4/8, 4/15, 4/22, 4/29, 5/6, 5/13, 5/20, 5/27, 6/3, 6/10, 6/17, 6/24, 6/30, 7/7, 7/14, 7/21, 7/28, 8/4, 8/11, 8/18, 8/25, 9/1, 9/8, 9/15, 9/22, 9/29, 10/6, 10/13, 10/20, 10/27, 11/3, 11/10, 11/17, 11/24, 12/1, 12/8, 12/15, 12/22, 12/29, 1916. 1/5, 1/12, 1/19, 1/26, 2/2, 2/9, 2/16, 2/23, 2/30, 3/6, 3/13, 3/20, 3/27, 4/3, 4/10, 4/17, 4/24, 4/30, 5/7, 5/14, 5/21, 5/28, 6/4, 6/11, 6/18, 6/25, 7/2, 7/9, 7/16, 7/23, 7/30, 8/6, 8/13, 8/20, 8/27, 9/3, 9/10, 9/17, 9/24, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/25, 12/2, 12/9, 12/16, 12/23, 12/30, 1917. 1/6, 1/13, 1/20, 1/27, 2/3, 2/10, 2/17, 2/24, 3/2, 3/9, 3/16, 3/23, 3/30, 4/6, 4/13, 4/20, 4/27, 5/4, 5/11, 5/18, 5/25, 6/1, 6/8, 6/15, 6/22, 6/29, 7/6, 7/13, 7/20, 7/27, 8/3, 8/10, 8/17, 8/24, 8/31, 9/7, 9/14, 9/21, 9/28, 10/5, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16, 11/23, 11/30, 12/7, 12/14, 12/21, 12/28, 1918. 1/4, 1/11, 1/18, 1/25, 2/1, 2/8, 2/15, 2/22, 2/29, 3/6, 3/13, 3/20, 3/27, 4/3, 4/10, 4/17, 4/24, 4/30, 5/7, 5/14, 5/21, 5/28, 6/4, 6/11, 6/18, 6/25, 7/2, 7/9, 7/16, 7/23, 7/30, 8/6, 8/13, 8/20, 8/27, 9/3, 9/10, 9/17, 9/24, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/25, 12/2, 12/9, 12/16, 12/23, 12/30, 1919. 1/6, 1/13, 1/20, 1/27, 2/3, 2/10, 2/17, 2/24, 3/2, 3/9, 3/16, 3/23, 3/30, 4/6, 4/13, 4/20, 4/27, 5/4, 5/11, 5/18, 5/25, 6/1, 6/8, 6/15, 6/22, 6/29, 7/6, 7/13, 7/20, 7/27, 8/3, 8/10, 8/17, 8/24, 8/31, 9/7, 9/14, 9/21, 9/28, 10/5, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16, 11/23, 11/30, 12/7, 12/14, 12/21, 12/28, 1920. 1/4, 1/11, 1/18, 1/25, 2/1, 2/8, 2/15, 2/22, 2/29, 3/6, 3/13, 3/20, 3/27, 4/3, 4/10, 4/17, 4/24, 4/30, 5/7, 5/14, 5/21, 5/28, 6/4, 6/11, 6/18, 6/25, 7/2, 7/9, 7/16, 7/23, 7/30, 8/6, 8/13, 8/20, 8/27, 9/3, 9/10, 9/17, 9/24, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/25, 12/2, 12/9, 12/16, 12/23, 12/30, 1921. 1/6, 1/13, 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