

## REPORT ON BOILERS.

No. 24512

Received at London Office

14 MAY 1936

Date of writing Report 7-5-1936 When handed in at Local Office

102

Port of

Rotterdam

No. in Survey held at

Rotterdam

Date, First Survey

26-8-35

Last Survey

3-3-

1936

Reg. Book.

on the

Donkey boiler Motor Tanker, ETREMA

(Number of Visits 19)

Tons

Gross 6236

Net

2606

Master

L

Built at

Rotterdam

By whom built

Rott Drogd My

Yard No.

193

When built

1936

Engines made at

Amsterdam

By whom made

C.V. Werkspoor.

Engine No.

When made

1936

Boilers made at

Rotterdam

By whom made

Rott Drogd My

Boiler No.

527

When made

1936

Nominal Horse Power

377

Owners

Petroleum My "La Corona"

Port belonging to

Gravenhage

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

Manufacturers of Steel

The Steel Company of Scotland.

(Letter for Record

S

Total Heating Surface of Boilers

2560 sq

Is forced draught fitted

yes

Coal or Oil fired

Oil

No. and Description of Boilers

One Multitubular Marine Boiler.

Working Pressure

180 lb

Tested by hydraulic pressure to

320 lb

Date of test

3.3.36

No. of Certificate

977

Can each boiler be worked separately

Area of Firegrate in each Boiler

-

No. and Description of safety valves to each boiler

2 spring loaded

of each set of valves per boiler

per Rule

16.4 sq

as fitted

90 mul

Pressure to which they are adjusted

100

Are they fitted with easing gear

yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler.

Thickness of adjusting washers 21.1, 20 mul

Boiler in after turn 19 mul

Smallest distance between boilers or uptakes and bunkers or woodwork

Over 24"

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

yes

Largest internal dia. of boilers

4400 mul

Length

3468 mul

Shell plates: Material

S. M. Steel

Tensile strength

46.8-52 kg

Thickness

2.9 mul

Are the shell plates welded or flanged

Welded at

Description of riveting: circ. seams

end laps 2 x riv

long. seams

Double butt straps 3 x riv

Diameter of rivet holes in

circ. seams 30 mul

long. seams 30 mul

Pitch of rivets

87 mul

Percentage of strength of circ. end seams

plate 65%

rivets 50%

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate 85%

rivets 85%

combined 87%

Working pressure of shell by Rules

12.8 kg/cm<sup>2</sup>

Thickness of butt straps

outer 2.5 mul

inner 2.5 mul

No. and Description of Furnaces in each Boiler

3 Moursens Patent.

Material

S. M. Steel

Tensile strength

41-47 kg/cm<sup>2</sup>

Smallest outside diameter

1130 mul

Length of plain part

top

bottom

Thickness of plates

crown 15 mul

bottom

Description of longitudinal joint

Welded.

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

-

Working pressure of furnace by Rules

13.22 kg/cm<sup>2</sup>

End plates in steam space: Material

S. M. Steel

Tensile strength

41-47 kg/cm<sup>2</sup>

Thickness

29.5 mul

Pitch of stays

440 x 450 mul

How are stays secured

Screwed in plate with nuts outside

Working pressure by Rules

12.65 kg/cm<sup>2</sup>

Tube plates: Material

front S. M. Steel

back S. M. Steel

Tensile strength

41-47 kg/cm<sup>2</sup>

Thickness

2.3 mul

Working pressure

front 17.8 kg/cm<sup>2</sup>

Mean pitch of stay tubes in nests

196 x 300 mul

Pitch across wide water spaces

360 mul

Working pressure

back

Girders to combustion chamber tops: Material

S. M. Steel

Tensile strength

44-50 kg/cm<sup>2</sup>

Depth and thickness of girder

at centre

210 x 1 x 19 mul

Length as per Rule

776 mul

Distance apart

220 mul

No. and pitch of stays

in each

3 in 200 mul

Working pressure by Rules

17.2 kg/cm<sup>2</sup>

Tensile strength

41-47 kg/cm<sup>2</sup>

Thickness: Sides

10 mul

Back

19 mul

Top

18 mul

Pitch of stays to ditto: Sides

200 mul

Back

200 x 195 mul

Top

200 x 220 mul

Are stays fitted with nuts or riveted over

Riveted over

Working pressure by Rules

15.3 kg/cm<sup>2</sup>

Front plate at bottom: Material

S. M. Steel

Tensile strength

41-47 kg/cm<sup>2</sup>

Thickness

2.3 mul

Lower back plate: Material

S. M. Steel

Tensile strength

41-47 kg/cm<sup>2</sup>

Thickness

2.3 mul

Pitch of stays at wide water space

366 mul

Working Pressure

17.7 kg/cm<sup>2</sup>

Main stays: Material

S. M. Steel

Tensile strength

44-50 kg/cm<sup>2</sup>

Diameter

At body of stay, 3"

Over threads

3 3/4"

No. of threads per inch

9

Area supported by each stay

190000 mul

Working pressure by Rules

15.5 kg/cm<sup>2</sup>

Screw stays: Material

S. M. Steel

Tensile strength

41-47 kg/cm<sup>2</sup>

Diameter

At turned off part, 1 3/8"

Over threads

1 1/2"

No. of threads per inch

9

Area supported by each stay

40000



Working pressure by Rules *14.1 18/100* Are the stays drilled at the outer ends *Yes* Margin stays: Diameter *1 1/16"*  
No. of threads per inch *9* Area supported by each stay *50091 melle* Working pressure by Rules *14.1 18/100*  
Tubes: Material *Iron* External diameter *2 3/4"* Thickness *5/16"* No. of threads per inch *9*  
Pitch of tubes *98 x 100 melle* Working pressure by Rules *215 lb* Manhole compensation: Size of opening in  
shell plate *370 x 470 melle* Section of compensating ring *480 x 880 x 32 melle* No. of rivets and diameter of rivet holes *54 @ 32 melle*  
Outer row rivet pitch at ends *220 melle* Depth of flange if *manhole flanged* *100 melle* Steam Dome: Material *-*  
Tensile strength *-* Thickness of shell *-* Description of longitudinal joint *-*  
Diameter of rivet holes *-* Pitch of rivets *-* Percentage of strength of joint *-*  
Internal diameter *-* Working pressure by Rules *-* Thickness of crown *-* No. and diameter of  
stays *-* Inner radius of crown *-* Working pressure by Rules *-*  
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 *-* Manufacturers of *-*  
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 *-* Working pressure as per  
Rules *-* Pressure to which the safety valves are adjusted *-* Hydraulic test pressure:  
tubes *-* 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 23 inclusive for boilers been complied with *Yes*

The foregoing is a correct description,

Manufacturer.

Dates of Survey *During progress of work in shops - - - 16/10/10 19/10/10 21/10/10 23/10/10 25/10/10 27/10/10 29/10/10 31/10/10 2/11/10 4/11/10 6/11/10 8/11/10 10/11/10 12/11/10 14/11/10 16/11/10 18/11/10 20/11/10 22/11/10 24/11/10 26/11/10 28/11/10 30/11/10 1/12/10 3/12/10 5/12/10 7/12/10 9/12/10 11/12/10 13/12/10 15/12/10 17/12/10 19/12/10 21/12/10 23/12/10 25/12/10 27/12/10 29/12/10 31/12/10 1/1/11 3/1/11 5/1/11 7/1/11 9/1/11 11/1/11 13/1/11 15/1/11 17/1/11 19/1/11 21/1/11 23/1/11 25/1/11 27/1/11 29/1/11 31/1/11 2/2/11 4/2/11 6/2/11 8/2/11 10/2/11 12/2/11 14/2/11 16/2/11 18/2/11 20/2/11 22/2/11 24/2/11 26/2/11 28/2/11 30/2/11 1/3/11 3/3/11 5/3/11 7/3/11 9/3/11 11/3/11 13/3/11 15/3/11 17/3/11 19/3/11 21/3/11 23/3/11 25/3/11 27/3/11 29/3/11 31/3/11 1/4/11 3/4/11 5/4/11 7/4/11 9/4/11 11/4/11 13/4/11 15/4/11 17/4/11 19/4/11 21/4/11 23/4/11 25/4/11 27/4/11 29/4/11 31/4/11 1/5/11 3/5/11 5/5/11 7/5/11 9/5/11 11/5/11 13/5/11 15/5/11 17/5/11 19/5/11 21/5/11 23/5/11 25/5/11 27/5/11 29/5/11 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