

REPORT ON BOILERS.

No. 28244C

Received at London Office

JUN 2 1939

Date of writing Report 20.1.1939 When handed in at Local Office

19

Port of Rotterdam

No. in Reg. Book.

Survey held at

Flushing

Date, First Survey

16.6.38

Last Survey

13.1.

1939

on the

Donkey Boiler for

MS. Cistula

(Number of Visits 18)

Gross

Tons

Net

Master

Built at

Schiedam

By whom built

Wilton-Tijmwood Yard No. 666 When built 1939

Engines made at

Amsterdam

By whom made

N.D. Werkspoor

Engine No. 745

When made 1939

Boiler made at

Flushing

By whom made

Kon. My. De Schelde

Boiler No. 1051

When made 1939

Nominal Horse Power

502

Owners

Petroleum My. "La Corona"

Port belonging to

Groningen

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

Manufacturers of Steel

The Steel Co. of Scotland

(Letter for Record S)

Total Heating Surface of Boilers

2560 ft²

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

13.1.39

No. of Certificate

1016

Can each boiler be worked separately

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

1 young loaded

Pressure of each set of valves per boiler

per Rule

as fitted 90 mm

Pressure to which they are adjusted

100 lb

Are they fitted with easing gear

Yes

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

Thickens washers. No 2 16 mm

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

Largest internal dia. of boilers

4400 mm

Length

3468 mm

Shell plates: Material

S. M. Steel Tensile strength 46.8-52 kg/mm²

Thickness

29 mm

Are the shell plates welded or flanged

Welded at outer end of butt strap

Description of riveting: circ. seams

end lap 2 x riv

long. seams Double butt 3 x riv

Diameter of rivet holes in

circ. seams 30 mm

Pitch of rivets

83 mm

Percentage of strength of circ. end seams

plate 64%

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/cm²

Thickness of butt straps

outer 15 mm

No. and Description of Furnaces in each Boiler

3 Moulton Patent

Material

S. M. Steel

Tensile strength

41-47 kg/mm²

Smallest outside diameter

1130 mm

Length of plain part

top

Thickness of plates

crown

15 mm

Description of longitudinal joint

Welded

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

Working pressure of furnace by Rules

13.22 kg/cm²

End plates in steam space: Material

S. M. Steel

Tensile strength

41-47 kg/mm²

Thickness

29 mm

How are stays secured

Screwed in plates with nuts inside and outside

Working pressure by Rules

12.65 kg/cm²

Tube plates: Material

front S. M. Steel

Tensile strength

41-47 kg/mm²

Thickness

23 mm

Mean pitch of stay tubes in nests 200 x 294 mm

Pitch across wide water spaces

360 mm

Working pressure

front 17.8 kg/cm²

Girders to combustion chamber tops: Material

S. M. Steel

Tensile strength

44-50 kg/mm²

Depth and thickness of girder

at centre 210 x 11 x 19 mm

Length as per Rule

776 mm

Distance apart

220 mm

No. and pitch of stays

in each 3 at 100 mm

Working pressure by Rules

17.1 kg/cm²

Combustion chamber plates: Material

S. M. Steel

Tensile strength

41-47 kg/mm²

Thickness: Sides

18 mm

Back

19 mm

Top

18 mm

Bottom

25 mm

Pitch of stays to ditto: Sides

150 mm

Back

100 x 19 mm

Top

100 x 210 mm

Are stays fitted with nuts or riveted over

Riveted over

Working pressure by Rules

13.3 kg/cm²

Front plate at bottom: Material

S. M. Steel

Tensile strength

41-47 kg/mm²

Thickness

23 mm

Lower back plate: Material

S. M. Steel

Tensile strength

41-47 kg/mm²

Thickness

23 mm

Pitch of stays at wide water space

366 mm

Are stays fitted with nuts or riveted over

Fitted with nuts

Working Pressure

17.7 kg/cm²

Main stays: Material

S. M. Steel

Tensile strength

44-50 kg/mm²

Diameter

At body of stay, or over threads

3 1/4"

No. of threads per inch

9

Area supported by each stay

190000 mm²

Working pressure by Rules

15.5 kg/cm²

Screw stays: Material

S. M. Steel

Tensile strength

41-47 kg/mm²

Diameter

At turned off part, or over threads

1 3/8"

No. of threads per inch

9

Area supported by each stay

40100 mm²

00592-00601-0730

Lloyd's Register Foundation

Working pressure by Rules *14.1 kg/cm²* Are the stays drilled at the outer ends *Yes* Margin stays: Diameter { At turned off part, *1 7/16"* or *1 5/8"* Over threads *1 5/8"*

No. of threads per inch *9* Area supported by each stay *50091 mm²* Working pressure by Rules *14.1 kg/cm²*

Tubes: Material *Iron* External diameter { Plain *2 3/4"* Stay *2 3/4"* Thickness { *5/16"* *9/16"* No. of threads per inch *9*

Pitch of tubes *98 x 100 mm* Working pressure by Rules *215 lbs* Manhole compensation: Size of opening in shell plate *370 x 470 mm* Section of compensating ring *780 x 880 x 32 mm* No. of rivets and diameter of rivet holes *54 x 32 mm*

Outer row rivet pitch at ends *220 mm* Depth of flange if manhole flanged *100 mm* Steam Dome: Material *Iron*

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 *✓* 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 { 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 *✓* Working pressure as per Rules *✓* 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 *✓*

The foregoing is a correct description,
p. proc *N.V. Kon. M. De Schelde* Manufacturer

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