

REPORT ON BOILERS.

No. 16324

-4 MAR 1925

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of

Süderdorf + Hamburg

No. in Survey held at
Reg. Book.

Aachen

Date, First Survey 13th Nov. 1924Last Survey 6th February 1925

on the S.S. M.V. "TOPEKA"

(Number of Visits

4

Gross

4991

Tons

Net

3030

Built at

Kiel

By whom built

Deutsche Werke A.G.

Yard No.

198

When built

1925.

Engines made at

Kiel

By whom made

Deutsche Werke A.G.

Engine No.

534

When made

1925.

Boilers made at

Aachen

By whom made

Jacques Pielbœuf

Boiler No.

11744

When made

1925

Owners

Hilth. Wilhelmussen.

Port belonging to

Pörsberg.

VERTICAL DONKEY BOILER.

Made at

Aachen

By whom made

Jacques Pielbœuf

Boiler No.

11744

When made

1925

Where fixed

engine room.

Manufacturers of Steel

Rheinische Stahlwerke of Duisburg.

Total Heating Surface of Boiler

107,6 sq. feet

Is forced draught fitted

no

Coal or Oil fired

oil fired

No. and Description of Boilers

Vertical Cross Tube Boiler.

Working pressure

100 lbs.

Tested by hydraulic pressure to

200 lbs.

Date of test

6th February 1925

No. of Certificate

8

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

2 spring loaded.

Area of each set of valves per boiler

per rule 762 2/3

as fitted 2268 2/3

Pressure to which they are adjusted

100 lb.

Are they fitted with easing gear

yes.

State whether steam from main boilers can enter the donkey boiler

yes

Smallest distance between boiler or uptake and bunkers

Is oil fuel carried in the double bottom under boiler

no

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated

no.

Largest internal dia. of boiler

1168 mm

Height

3100 mm

Shell plates: Material

Siemens Martin Steel

Tensile strength

45,3 kg/sq. mm

Thickness

9 mm.

Are the shell plates welded or flanged

no.

Description of riveting: circ. seams

double row lapped

long. seams

double row lapped

Dia. of rivet holes in

circ. seams 17 mm

Pitch of rivets

70 mm

Percentage of strength of circ. seams

plate 75,7%

rivets 23,2%

of Longitudinal joint

plate 73,4%

rivets 80,0%

combined

Working pressure of shell by rules

129 lbs.

Thickness of butt straps

outer

inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat dished partial spherical

Material Siemens Martin Steel

Tensile strength 44,4 kg/sq. mm

Thickness 12 mm

Radius 1150 mm

Working pressure by rules 131 lbs.

Description of Furnace: Plain, spherical, or dished crown plain

Material Siemens Mart. Steel

Tensile strength 45,3 kg/sq. mm

Thickness 15,5 mm

External diameter top 1031 mm

bottom 1031 mm

Length as per rule 2400 mm

Working pressure by rules 128 lbs.

Pitch of support stays circumferentially

and vertically

Are stays fitted with nuts or riveted over

Diameter of stays over thread

Radius of spherical or dished furnace crown

Working pressure by rule

Thickness of Ogee Ring 30 mm

Diameter as per rule D 1168 mm

Working pressure by rule 174 lbs.

Combustion Chamber: Material Siemens Martin Steel

Tensile strength 45,3 kg/sq. mm

Thickness of top plate 17 mm

Radius if dished 1200 mm

Working pressure by rule 186 lbs.

Thickness of back plate

Diameter if circular

Length as per rule

Pitch of stays

Are stays fitted with nuts or riveted over

Diameter of stays over thread

Working pressure of back plate by rules

Tube Plates: Material front back

Tensile strength

Thickness

Mean pitch of stay tubes in nests

If comprising shell, Dia. as per rule front back

Pitch in outer vertical rows

Dia. of tube holes FRONT stay plain BACK stay plain

Is each alternate tube in outer vertical rows a stay tube

Working pressure by rules front back

Girders to combustion chamber tops: Material

Tensile strength

Length as per rule

Working pressure by rule

Depth and thickness of girder at centre

Distance apart

No. and pitch of stays in each

Working pressure by rule

W279-0118

© 2020

Lloyd's Register
Foundation

