

REPORT ON BOILERS.

No. 391

Receiver

Date 14th April 52

When handed in at Local Office

Port of Bremen

Date, First Survey 25th August

Last Survey 4th April, 1952

(Number of Visits 24)

Tons Gross 11083

Tons Net

Built at Bremen/Vegesack

By whom built Bremer Vulkan

Yard No. 816

When built 4.52

By whom made Bremer Vulkan

Engine No. 408

When made 4.52

By whom made Bremer Vulkan

Boiler No. 1017

When made 4.52

Boiler No. 1018

Port belonging to G8teborg

Owners A/B Dalen

6500 NHP

RULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

of Steel Rheinische Röhrenwerke, Mülheim/Ruhr

Surface of Boilers 500 sq.m.

Is forced draught fitted yes

Coal or Oil fired oil

Description of Boilers two, Scotch Marine Type

Working Pressure 12.6 Atm

Pressure 22.5 Atm.

Date of test 4.2.52

No. of Certificate 4 & 5

Can each boiler be worked separately yes

Rate in each Boiler

No. and Description of safety valves to each boiler two, 90 mm diam. spring loaded

Set of valves per boiler

as fitted 12,700 mm 2

Pressure to which they are adjusted 12.6 Atm

Are they fitted with casing gear yes

Key boilers, state whether steam from main boilers can enter the donkey boiler

Connection between boilers or uptakes and bunkers or woodwork 10 mtrs.

Is oil fuel carried in the double bottom under boilers

Distance between shell of boiler and tank top plating on boiler flat above

Is the bottom of the boiler insulated yes

Diam. of boilers 4,400 mm

Length 3,690 mm

Shell plates: Material S.M. steel

Tensile strength 47-53.3 kgs/mm2

Are the shell plates welded or flanged no

Description of riveting: circ. seams

end 96.6 mm double

Diameter of rivet holes in

circ. seams 32 mm

long. seams 32 mm

Pitch of rivets

96.6 mm

Strength of circ. end seams

rivets 66.8

Percentage of strength of circ. intermediate seam

plate 44.6

rivets 84.6

Strength of longitudinal joint

rivets 98.5

Working pressure of shell by Rules 12.7 atmos.

combined 92.8

Att straps

outer 26.5 mm

inner 26.5 mm

No. and Description of Furnaces in each Boiler three, Morison

steel

Tensile strength 41 - 47 kg/mm2

Smallest outside diameter 1130 mm

Thickness of plates

crown 15 mm

bottom 15 mm

Description of longitudinal joint electric welded

Working pressure of furnace by Rules 13.9 atmos.

Material S.M. steel

Tensile strength 41 - 47 kg/mm2

Thickness 27 mm

Pitch of stays 410 x 420 mm

Secured welded

Working pressure by Rules 13.9 atm.

Material front S.M. steel

Tensile strength 41 - 47 kg/mm2

Thickness 27 mm

Material back S.M. steel

Tensile strength 41 - 47 kg/mm2

Thickness 23 mm

Stay tubes in nests 210 x 210 mm

Pitch across wide water spaces 360 mm

Working pressure front 20 Atm.

back 14.8 Atm.

Combustion chamber tops: Material S.M. steel

Tensile strength 47 - 53.3 kg/mm2

Depth and thickness of girder

Length as per Rule 850 mm

Distance apart 200 mm

No. and pitch of stays

Working pressure by Rules

Combustion chamber plates: Material S.M. steel

Tensile strength 41 - 47 kg/mm2

Thickness: Sides 18 mm

Back 18 mm

Top 18 mm

Bottom 18 mm

(back-welded)

Are stays fitted with nuts or riveted over (sides -screwed with nuts)

Front plate at bottom: Material S.M. steel

Tensile strength 41 - 47 kg/mm2

Thickness 27 mm

Lower back plate: Material S.M. steel

Tensile strength 41 - 47 kg/mm2

Thickness 27 mm

Wide water space 195 x 360 mm

Are stays fitted with nuts or riveted over welded

Main stays: Material S.M. steel

Tensile strength 44 - 50.3 kg/mm2

No. of threads per inch welded

Area supported by each stay 1,720 cm2

Screw stays: Material S.M. steel

Tensile strength 41-47 kg/mm2

No. of threads per inch 9 (side)

Area supported by each stay 380 cm2

by Rules 13.8 Atm

Sides 190 x 200 mm

Back 195 x 195 mm

Top 188 x 210 mm

C.

off part 49,42,35 mm (back)

reads 35 mm (side)

Received at London Office 14 JUN 1952

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Lloyd's Register
Foundation

Working pressure by Rules 12.6 atm. Are the stays drilled at the outer ends ☒ no ☐ yes Margin stays: Diameter ☐ At turned off part ☐ or ☐ Over threads 49 &
No. of threads per inch welded ☒ Area supported by each stay 386 cm² Working pressure by Rules 18.3 atm report.
Tubes: Material S.M. steel External diameter Plain 76 mm ☒ Stay 76 mm ☒ Thickness 4 mm ☒ 7 mm ☒ No. of threads per inch by hel
Pitch of tubes 105 x 105 mm ☒ Working pressure by Rules 17.7 atm. Manhole compensation: ☒ M.
shell plate 300 x 400 mm 370 x 470 ☒ Section of compensating ring 215 x 28.5 mm No. of rivets and diameter of rivet holes 34 & 32 ☒ Veg
Outer row rivet pitch at ends 210 mm ☒ Depth of flange if manhole flanged 95 mm ☒ Steam Dome: Material ☒ M.
Tensile strength Thickness of shell Description of longitudinal joint
Diameter of rivet holes Pitch of rivets Percentage of strength of joint ☒ Plate
Internal diameter Working pressure by Rules Thickness of crown
stays Inner radius of crown Working pressure by Rules
How connected to shell Size of doubling plate under dome Diameter of rivet fitte
of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of Tubes
Number of elements Material of tubes Internal diameter and thickness of tubes
Material of headers Tensile strength Thickness Can the superheater
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
Rules Pressure to which the safety valves are adjusted
tubes forgings and castings and after assembly in place
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 of the boiler and superheater forwarded hereon
Schmidt and Mascher
McGill
Dates of Survey: During progress of work in shops - 25.8.19, 9.1.10, 3.10.5, 10.11.10, 19.12.10, 9.1.11, 26.1.11, 3.12.11, 12.12.20, 12.12.21, 12.12.51
while building During erection on board vessel - 16.1.18, 1.1.23, 1.4.2, 8.2.52
Are the approved plans of boiler and superheater forwarded hereon (If not state date of approval.)
Total No. of visits 24

Is this Boiler a duplicate of a previous case ☒ yes ☐ no If so, state Vessel's name and Report No. "DAGMAR SALÉN" Rpt. No. 355

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been constructed

Special Survey in conformity with the Society's Rules and Regulations, the approved plans and the Secreta

The materials and workmanship are good. The boilers have been examined during construction, properly insta

above vessel, examined under working conditions and found good.

13.9 atm.

mm 50 x 10

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