

REPORT ON BOILERS.

No. 1043.

Received at London Office 13 FEB 1928

12th March.
 of writing Report 6th Feb. 1928 When handed in at Local Office 9th Feb. 1928 Port of Bremen / Augsburg

No. in Survey held at Kaiserlautern & Kiel. Date, First Survey 28th Nov. 1927 Last Survey 29th January 1928

Book 318 on the Motor Vessel "Pacific President" (Number of Visits 2+5) Tons { Gross 7144 Net 4316

uilt at Kiel By whom built Deutsche Werke, Kiel A.G. Yard No. 212 When built 1928

ines made at Kiel By whom made Deutsche Werke Kiel A.G. Engine No. 212 When made 1928

ilers made at Kaiserlautern By whom made Oskar Schimmelbusch. Boiler No. 8823 When made 1928

ners Trans Oceanic S.S. Co. Ltd. Port belonging to London.

VERTICAL DONKEY BOILER.

de at Kiel By whom made Oskar Schimmelbusch Boiler No. 8823 When made 1928 Where fixed Engine room fore.

manufacturers of Steel Vereinigte Stahlwerke A.G. Stahl- und Holzwerk Thyssen of Mülheim / Ruhr.

total Heating Surface of Boiler 45 sq. m. Is forced draught fitted Coal or Oil fired oil

and Description of Boilers 1 Vertical multitube Donkey Boiler Working pressure 7 kg/cm²

tested by hydraulic pressure to 14 kg. per sq. cm. Date of test 29th January 1928 No. of Certificate 438

sa of Firegrate in each Boiler oil fired No. and Description of safety valves to each boiler

ea of each set of valves per boiler { per rule 18.8 cm² as fitted 4741 cm² Pressure to which they are adjusted 100 lb (7 kg) Are they fitted with easing gear yes

ate whether steam from main boilers can enter the donkey boiler Smallest distance between boiler or uptake and bunkers

woodwork Is oil fuel carried in the double bottom under boiler valves oil Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated no Largest internal dia. of boiler 1979 mm Height 4600 mm

ell plates: Material Siemens Martin Steel Tensile strength 44 ÷ 50 kg/cm² Thickness 14.5 mm

the shell plates welded or flanged flanged Description of riveting: circ. seams { end 40 joint inter 40 joint long seams 40 joint

ia. of rivet holes in { circ. seams 23 mm Pitch of rivets { 54.6 mm 50 mm Percentage of strength of circ. seams { plate 58% rivets 39% of Longitudinal joint { plate 67.5 rivets 61 combined 65.3

orking pressure of shell by rules 8.6 kg. per sq. cm. Thickness of butt straps { outer inner

ell Crown: Whether complete hemisphere, dished partial spherical, or flat dished partial spherical Material Siemens Martin Steel

nsile strength 41 ÷ 47 kg/cm² Thickness 20 mm Radius 1950 mm Working pressure by rules 8.6 kg. p. sq. cm.

escription of Furnace: Plain, spherical, or dished crown partly dished crown Material Siem. Mart. steel Tensile strength 41 ÷ 47 kg/cm²

ickness 18 mm External diameter { top 1979 mm bottom 1800 mm Length as per rule 1335 mm Working pressure by rules 8.6 kg. per sq. cm.

atch of support stays circumferentially 215 mm and vertically 300 mm Are stays fitted with nuts or riveted over riveted over

iameter of stays over thread 38 mm Radius of spherical or dished furnace crown 1250 mm Working pressure by rule 13.4 kg. p. sq. cm.

ickness of Ogee Ring Diameter as per rule D Working pressure by rule

ombustion Chamber: Material Siemens Martin steel Tensile strength 41 ÷ 47 kg/cm² Thickness of top plate 20 mm

adius if dished 1700 mm Working pressure by rule 9.9 kg/cm² Thickness of back plate 18 mm Diameter if circular R = 700

ength as per rule Pitch of stays Are stays fitted with nuts or riveted over

iameter of stays over thread Working pressure of back plate by rules 315 mm

ube Plates: Material { front 20 mm Tensile strength { 41 ÷ 47 kg/cm² Thickness { Siemens Mart. steel Mean pitch of stay tubes in nests in maximum

comprising shell, Dia. as per rule { front 1170 Pitch in outer vertical rows { 90 mm Dia. of tube holes FRONT { stay 66 plain 66.5 BACK { stay 61 plain 63.5

each alternate tube in outer vertical rows a stay tube yes Working pressure by rules { front 8.2 kg/cm² back 9.25

orders to combustion chamber tops: Material Tensile strength

epth and thickness of girder at centre Length as per rule

istance apart No. and pitch of stays in each Working pressure by rule

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W68-0006

Crown stays: Material _____ Tensile strength _____ Diameter { at body of stay, _____ or over threads, _____
No. of threads per inch _____ Area supported by each stay _____ Working pressure by rules _____

Screw stays: Material *Lat. Steel* Tensile strength *41-47 kg/cm²* Diameter { at turned off part, *34.5 mm* or over threads, *38 mm* No. of threads per inch *11*
Area supported by each stay *300 * 215 = 64,500 mm²* Working pressure by rules *8.76 kg/cm²* Are the stays drilled at the outer ends *yes, 4*

Tubes: Material *Siemens Martin steel* External diameter { plain *63.5 mm* stay *63.5 mm* Thickness { *3 mm* *6 mm*
No. of threads per inch *14* Pitch of tubes *90 mm* Working pressure by rules *9 kg/cm²*

Manhole Compensation: Size of opening in shell plate _____ Section of compensating ring _____ No. of rivets and dia. of rivet holes _____ Outer row rivet pitch at ends _____ Depth of flange if manhole flanged _____

Uptake: External diameter _____ Thickness of uptake plate _____

Cross Tubes: No. _____ External diameters { _____ Thickness of plates _____

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with *yes*

The foregoing is a correct description,

Kesselfabrik Kaiserslautern
Oskar Schimmelbusch

Manufact

Dates of Survey { During progress of work in shops - *18/ii/27, 21/i/28*
while building { During erection on board vessel - *18/2-27/2 - 8/3 - 10/3 - 12/3/28*

Is the approved plan of boiler forwarded herewith *9/12/27*
(If not state date of approval.)

Total No. of visits *2 + 5* *Em. Bot.*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This Vertical multitube Donkey Boiler has been constructed under Special Survey accordance with the approved plan and instructions hereto and in conformity with the Society's Rules. The materials used in the construction and the workmanship is good. In my opinion the Boiler is eligible to be entered in the Register Book with record of 7 kg/cm² per sq. cm = 100 lbs per sq. inch. For completion of Survey the Boiler is to be satisfactorily fitted on board and examined under steam pressure. The Boiler shell has been stamped above the fire hole:

No 438

LLLOYDS TEST 14 ATM.

W.P. 7 ATM.

P.K. 21.1.28.

This Donkey Boiler has been satisfactorily fitted on board and found under steam tight and satisfactory. The safety valves have been adjusted to 100 lbs per sq. inch (7 kg/cm²) and are *Turn: 25 mm. Lift: 26 mm.*

Survey Fee ... £ 4 : 4 : When applied for, *15.12.1928*

Travelling Expenses (if any) £ 5 : 6 : When received, *11.6.1928*

Committee's Minute TUES. 3 APR 1928

Assigned *See Main, 28 Apr. No 17971*

WED. 8 AUG 1928

FRI. 21 SEP 1928

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