

## REPORT ON BOILERS.

No. 2/82.

Received at London Office 18 AUG 1942

Date of writing Report May 1942 When handed in at Local Office 101 Port of Curacao, N. W. I.  
 No. in Survey held at Curacao, N. W. I. Date, First Survey 7 Feb. 1941 Last Survey 18 Feb. 1942  
 Reg. Book. 25103 on the m. v. "Gonair" ex "Hury Korn" (Number of Visits 3) Tons { Gross 3164  
 Net 1857  
 Master ✓ Built at Hamburg By whom built Reichsreg. Schiffb. Werke G.m.b.H. When built 1926  
 Engines made at Winterthur By whom made Sulzer Bros. When made 1922  
 Boilers made at Hamburg By whom made Reichsreg. Schiffb. Maschinenfabrik When made 1926  
 Registered Horse Power 1360 BHP Owners Government of Curacao, N. W. I. Port belonging to Willemstad.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Abt. G. Phoenix Abt. N. V. Urein(Letter for record none.) Total Heating Surface of Boilers 40 m<sup>2</sup> Is forced draft fitted no No. and Description ofBoiler One horiz. cyl. multitubular Working Pressure 6 kg/cm<sup>2</sup> Tested by hydraulic pressure to 11 kg/cm<sup>2</sup> Date of test 16-5-41No. of Certificate ✓ Can each boiler be worked separately ✓ Area of fire grate in each boiler oil fired No. and Description ofsafety valves to each boiler 2 spring loaded Area of each valve 25.64 cm<sup>2</sup> Pressure to which they are adjusted 6 kg/cm<sup>2</sup>Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler noSmallest distance between boilers or uptakes and bunkers on woodwork 31 cm Mean dia. of boilers 1900 mm Length 2432 mmMaterial of shell plates 3. m. Thickness 10 mm Range of tensile strength 51 kg/cm<sup>2</sup> Are the shell plates welded or flanged flangedDescrip. of riveting: cir. seams Abt. rivet lap long. seams Abt. rivet lap Diameter of rivet holes in long. seams 7 mm Pitch of rivets 70 mmLap of plates or width of butt straps 140 mm Per centages of strength of longitudinal joint ✓ Working pressure of shell byrules 6 kg/cm<sup>2</sup> Size of manhole in shell 400 x 300 mm Size of compensating ring 150 mm x 10 mm No. and Description of Furnaces in eachboiler one plain Material 3. m. Outside diameter 600 mm Length of plain part top 1905 mm Thickness of plates crown 11 mmDescription of longitudinal joint gas weld No. of strengthening rings none Working pressure of furnace by the rules 6 kg/cm<sup>2</sup> Combustion chamberplates: Material 3. m. Thickness: Sides 11.5 mm Back 2 mm Top 11.5 mm Bottom 13.6 mm Pitch of stays to ditto: Sides 200 mm Back 200 mmTop 200 mm If stays are fitted with nuts or riveted heads nuts Working pressure by rules 6 kg/cm<sup>2</sup> Material of stays 3. m. Area atsmallest part 5/4 mm<sup>2</sup> Area supported by each stay 0.4 m<sup>2</sup> Working pressure by rules 6 kg/cm<sup>2</sup> End plates in steam space: Material 3. m. Thickness 7.75 mmPitch of stays 480 mm How are stays secured with nuts Working pressure by rules 6 kg/cm<sup>2</sup> Material of stays 3. m. Area at smallest part 2042 mm<sup>2</sup>Area supported by each stay 0.23 m<sup>2</sup> Working pressure by rules 6 kg/cm<sup>2</sup> Material of Front plates at bottom 3. m. Thickness 7.5 mm Material ofLower back plate 3. m. Thickness 6.5 mm Greatest pitch of stays 200 mm Working pressure of plate by rules 6 kg/cm<sup>2</sup> Diameter of tubes 63.5 mmPitch of tubes 85 mm Material of tube plates 3. m. Thickness: Front 7.5 mm Back 7.5 mm Mean pitch of stays 170 mm Pitch across widewater spaces 340 mm Working pressures by rules 6 kg/cm<sup>2</sup> Girders to Chamber tops: Material 3. m. Depth and thickness ofgirder at centre 125 x 10 mm Length as per rule 500 mm Distance apart 200 mm Number and pitch of Stays in each oneWorking pressure by rules 6 kg/cm<sup>2</sup> Steam dome: description of joint to shell Double rivet flanged % of strength of jointDiameter 650 mm Thickness of shell plates 12 mm Material 3. m. Description of longitudinal joint Abt. lap Diam. of rivet holes 20 mmPitch of rivets 65 mm Working pressure of shell by rules 6 kg/cm<sup>2</sup> Crown plates 6 kg/cm<sup>2</sup> Thickness 15 mm How stayed notSUPERHEATER. Type none Date of Approval of Plan ✓ Tested by Hydraulic Pressure to ✓Date of Test ✓ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler ✓Diameter of Safety Valve ✓ Pressure to which each is adjusted ✓ Is Easing Gear fitted ✓VERTICAL DONKEY BOILER—No. 201 Description 201 Manufacturers of steelMade at By whom made When made Where fixed Working pressuretested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valvesNo. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers canenter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensilestrength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivetsLap of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown platesRadius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnaceThickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crownplates Radius of do. Stayed by Diameter of uptake Thickness of uptake platesThickness of water tubes The foregoing is a correct description,

Manufacturer.

Dates of Survey During progress of work in shops 7-2-41, 29-4-41, 5-5-41, 12-5-41, 16-5-41, 31-1-42, 17-2-42, 18-2-42.  
while building During erection on board vessel  
grading Total No. of visits Eight. Is the approved plan of main boiler forwarded herewith ✓

" " " donkey " " "

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

The boiler, originally built to Germansche Lloyd Class, has been examined throughout including manning, doors & fittings with parts of lagging removed, is well made, in good condition and slightly, in my opinion to be classed with this Society with word of D.B.S. 2-42.

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee	<i>2/6</i> 110 <sup>00</sup>	When applied for,
Special	<i>See Rpt. 9</i>	<i>8/57</i> 19 <sup>42</sup>
Donkey Boiler Fee	<i>2/6</i> 55 <sup>00</sup>	When received,
Travelling Expenses (if any)	<i>2/6</i>	19 <sup>42</sup>

**FRL 16 OCT 1942**

Committee's Minute

Assigned

*See Co. Rpt. 2182*

*B. Chapman*  
Engineer Surveyor to Lloyd's Register of Shipping



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Foundation

Has the steel been tested as req

Rpt. 1

Date of

No. in  
Reg. 1

23/0

Built

Owner

Electr

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