

REPORT ON BOILERS.

No. 22634

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Date of writing Report 15.1.38 19 When handed in at Local Office

19 Port of

HAMBURG

No. in Survey held at Kiel
Reg. Book.

Date, First Survey 14.6.37

Last Survey 8.1.38 19

(Number of Visits ii) Gross 10781
Tons Net 6845

on the Steel A. Twin S.S. "China"

Master Built at Kiel By whom built Fr. Krupp Germania-Werft Yard No. 569 When built 1938
Engines made at Kiel By whom made Frick. Krupp Germania-Werft A.G. Engine No. 5629-14 When made 1938
Boilers made at Kiel By whom made Frick. Krupp Germania-Werft A.G. Boiler No. 3986-7 When made 1938
Nominal Horse Power 1165 Owners Balboa Transport Corporation Port belonging to Panama R.P.

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

Manufacturers of Steel Deutsche Röhrenwerke, Werk Thyssen, Mülheim. Krupp, Essen (Letter for Record 5 ✓)

Total Heating Surface of Boilers 510 m² Is forced draught fitted yes ✓ Coal or Oil fired oil ✓

No. and Description of Boilers 2 mult. Scotch Marine Donkey Boilers Working Pressure 200 lb ✓

Tested by hydraulic pressure to 350 lb Date of test 6.10.37 No. of Certificate 676-7 Can each boiler be worked separately yes ✓

Area of Firegrate in each Boiler ✓ No. and Description of safety valves to each boiler 1, 2 springs loaded ✓

Area of each set of valves per boiler { per Rule 10,050 m² as fitted 15,708 m² Pressure to which they are adjusted 200 lb Are they fitted with easing gear yes ✓

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no ✓

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 480 mm ✓ Is the bottom of the boiler insulated yes, asbestos mats

Largest internal dia. of boilers 4400 mm ✓ Length 3690 mm ✓ Shell plates: Material O.H. Steel Tensile strength 44 ÷ 50 kg/mm²

Thickness 34 mm Are the shell plates welded or flanged flanged ✓ Description of riveting: circ. seams { end D.R. inter. ✓

long. seams Double butt straps Diameter of rivet holes in { circ. seams 35 mm long. seams 35 mm Pitch of rivets { 105.5 mm 230 mm

Percentage of strength of circ. end seams { plate 66.7 rivets 44.4 ✓ Percentage of strength of circ. intermediate seam { plate rivets ✓

Percentage of strength of longitudinal joint { plate 84.7 rivets 89. - combined 87.3 ✓ Working pressure of shell by Rules 14.3 kg/cm² ✓

Thickness of butt straps { outer 30 mm inner 30 mm No. and Description of Furnaces in each Boiler 3 Morison ✓

Material O.H. Steel Tensile strength 41-47 kg/cm² ✓ Smallest outside diameter 1080 mm

Length of plain part { top 255 mm bottom ✓ Thickness of plates { crown 15 mm bottom ✓ Description of longitudinal joint welded ✓

Dimensions of stiffening rings on furnace or c.c. bottom ✓ Working pressure of furnace by Rules 14.2 kg/cm² ✓End plates in steam space: Material O.H. Steel Tensile strength 41-47 kg/cm² ✓ Thickness 32 mm Pitch of stays 480 × 420 mm ✓How are stays secured screws, nuts outside ✓ Working pressure by Rules 19.6 kg/cm² ✓Tube plates: Material { front O.H. Steel back O.H. Steel Tensile strength { 41-47 kg/cm² 41-47 kg/cm² ✓ Thickness { 23 mm 23 mm ✓Mean pitch of stay tubes in nests 220 × 220 mm ✓ Pitch across wide water spaces 367 mm ✓ Working pressure { front 15.5 kg/cm² back 26. - kg/cm² ✓Girders to combustion chamber tops: Material O.H. Steel Tensile strength 44 ÷ 50 kg/cm² ✓ Depth and thickness of girder

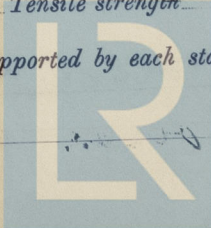
at centre 250 mm, 2 × 182 mm Length as per Rule 875 mm ✓ Distance apart 220 mm ✓ No. and pitch of stays

in each 3, 205 mm ✓ Working pressure by Rules 14.5 kg/cm² ✓ Combustion chamber plates: Material O.H. SteelTensile strength 41-47 kg/cm² ✓ Thickness: Sides 19 mm Back 19 mm Top 19 mm Bottom 23 mm riveted

Pitch of stays to ditto: Sides 205 × 185 mm Back 192.5 × 190 mm Top 205 × 220 mm Are stays fitted with nuts or riveted over with nuts (margin)

Working pressure by Rules 15.65 16.3 18.2 kg/cm² ✓ Front plate at bottom: Material O.H. Steel Tensile strength 41-47 kg/cm² ✓Thickness 23 mm Lower back plate: Material O.H. Steel Tensile strength 41-47 kg/cm² ✓ Thickness 22 mm

Pitch of stays at wide water space 4 × 500 mm ✓ Are stays fitted with nuts or riveted over with nuts ✓

Working Pressure 16.9 kg/cm² ✓ Main stays: Material O.H. Steel Tensile strength 44 ÷ 50 kg/cm² ✓Diameter { At body of stay, 76 mm No. of threads per inch 6 Area supported by each stay 115,200 mm² ✓
Over threads 82.47 mmWorking pressure by Rules 33.5 kg/cm² ✓ Screw stays: Material O.H. Steel Tensile strength 41-47 kg/cm² ✓Diameter { At turned off part, 15 mm No. of threads per inch 9 Area supported by each stay 37,925 mm² ✓
Over threads 39 mmLloyd's Register
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