

21 JAN 1929

870

REPORT ON BOILERS.

No. 18207

Received at London Office 13 AUG 1928

Date of writing Report 6th Aug. 1928 When handed in at Local Office 19th Jan. 29

Port of Hamburg - Malmo

7.12.28

Date, First Survey 26th June 28 Last Survey 3rd Aug. 1928

No. in Reg. Book 91106

Survey held at Hamburg

Suppl

M.V. MAX ALBRECHT

(Number of Visits 44)

Gross 5820

Net 3291

Built at Malmo

By whom built Rockniss Mek. Verkstad Akt. Yard No. 158 When built 1929

Engines made at Malmo

By whom made Rockniss M. V. Aktieb. Engine No. 25426 When made 1929

Boilers made at Hamburg

By whom made Deutsche Wurf A. G. Boiler No. 338 When made 1928

Owners Dr. Max Albrecht Kommanditgesellschaft

Port belonging to Hamburg

VERTICAL DONKEY BOILER.

Made at Hamburg By whom made Deutsche Wurf A. G. Boiler No. 338 When made 1928 Where fixed *on UO in the motor casing*

Manufacturers of Steel Mess. Gussstahlfabrik A. G. of Oberhausen

Total Heating Surface of Boiler 28 m²

Is forced draught fitted No

Coal or Oil fired oil fired

No. and Description of Boilers one vertical Donkey Boiler

Working pressure 10.5 kg/cm² (150 lb)

Tested by hydraulic pressure to 275 lb

Date of test 3rd August 1928

No. of Certificate 468

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler 2 spring loaded safety valves

Area of each set of valves per boiler { per rule 1785 m² as fitted 2 x 1257 m²Pressure to which they are adjusted 10.5 kg/cm² Are they fitted with easing gear yes

State whether steam from main boilers can enter the donkey boiler No

Smallest distance between boiler or uptake and bunkers

fuel oil tank on woodwork

1800 m²

Is oil fuel carried in the double bottom under boiler

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated yes from deck Largest internal dia. of boiler 1400 m Height 3410 m

Shell plates: Material P. M. steel

Tensile strength 41-47 kg/cm² Thickness 15 m

Are the shell plates welded or flanged flanged

Description of riveting: circ. seams { end single lap inter. long. seams double lap

Dia. of rivet holes in { circ. seams 23 m long. seams 23 m

Pitch of rivets { 57 m 79 m

Percentage of strength of circ. seams { plate 59.8% rivets 42.7%

of Longitudinal joint { plate 71% rivets 61.2% combined

Working pressure of shell by rules 11.85 kg/cm²

Thickness of butt straps { outer inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat dished partial spherical Material P. M. steel

Tensile strength 41-47 kg/cm² Thickness 18 m Radius 1100 m Working pressure by rules 13.7 kg/cm²Description of Furnace: Plain, spherical, or dished crown part spherical Material P. M. steel Tensile strength 41-47 kg/cm²Thickness 21 m External diameter { top 1050 m bottom 1150 m Length as per rule 1135 m Working pressure by rules 12.45 kg/cm²

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 1100 m Working pressure by rule 11.7 kg/cm²Thickness of Ogee Ring 21 m Diameter as per rule { D 1400 m a 1150 m Working pressure by rule 11.8 kg/cm²

Combustion Chamber: Material

Tensile strength

Thickness of top plate

Radius if dished Working pressure by rule 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 P. M. steel back P. M. steel Tensile strength { 41-47 kg/cm² Thickness { 21 m 21 m Mean pitch of stay tubes in nests 267 x 178 m

If comprising shell, Dia. as per rule { front 1050 m back 1150 m Pitch in outer vertical rows { 89 m 89 m Dia. of tube holes FRONT { stay 70 m plain 64.5 m BACK { stay 65.2 m plain 62.5 m

Is each alternate tube in outer vertical rows a stay tube yes Working pressure by rules { front 14.3 kg/cm² back 14.2 kg/cm²

Girders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder at centre

Length as per rule

Distance apart No. and pitch of stays in each

Working pressure by rule

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