

REPORT ON BOILERS.

No. 7844

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No. in Reg. Book. Survey held at Rotterdam & Trieste Date, First Survey Dec 15, 1927 Last Survey Jan 28 1928
41648 on the T. S. S. Letitia (Number of Visits eight) Gross 2580 Tons Net 1116Master Built at Monfalcone By whom built Cant. Nav. Triest. Yard No. 197 When built 1928
Engines made at Rotterdam By whom made Platt. Dröding Mfg Engine No. 162/163 When made 1927
Boilers made at Rotterdam By whom made Platt. Dröding Mfg Boiler No. 456 When made 1927
Nominal Horse Power 236 Owners Anacaosche Keesw. Maats. Port belonging to Willemstad

See also Rotterdam Report No 17045

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Witrowitzer B. & E. Gewerkschaft (Letter for Record S ✓)

Total Heating Surface of Boilers 4168 Is forced draught fitted yes Coal or Oil fired oil

No. and Description of Boilers Two single ended multitubular marine Working Pressure 180 lbs

Tested by hydraulic pressure to 320 Date of test 17.10.27 No. of Certificate 874 Can each boiler be worked separately yes

Area of Firegrate in each Boiler oil No. and Description of safety valves to each boiler Two high lifting spring loaded

Area of each set of valves per boiler {per Rule — as fitted 11.86 sq. ft. Pressure to which they are adjusted 185 lbs Are they fitted with easing gear yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler —

Smallest distance between boilers or uptakes and bunkers or woodwork — Is oil fuel carried in the double bottom under boilers no

Smallest distance between shell of boiler and tank top plating no tank Is the bottom of the boiler insulated yes

Largest internal dia. of boilers 13' 0" Length 12' 3" Shell plates: Material SPM S Tensile strength 28-32 T

Thickness 1 3/32" Are the shell plates welded or flanged no Description of riveting: circ. seams {end lap d.r. —

long. seams Double butt ribbed Diameter of rivet holes in {circ. seams 1 3/16" Pitch of rivets {3 3/16" —

Percentage of strength of circ. end seams {plate 62.9 rivets 52.5 Percentage of strength of circ. intermediate seam {plate — rivets —

Percentage of strength of longitudinal joint {plate 85.4 rivets 88 combined 88.2 Working pressure of shell by Rules 195 lbs 205 ✓

Thickness of butt straps {outer 7/8" inner — No. and Description of Furnaces in each Boiler Two Main

Material SPM S Tensile strength 26-30 T Smallest outside diameter 3' 11 7/8"

Length of plain part {top — bottom — Thickness of plates {crown 2 1/32" Description of longitudinal joint welded

Dimensions of stiffening rings on furnace or c.c. bottom none Working pressure of furnace by Rules 200 lbs

End plates in steam space: Material SPM S Tensile strength 26-30 T Thickness 1 1/8" Pitch of stays 17" x 16"

How are stays secured Forward in plate and nutted outside Working pressure by Rules 210 lbs

Tube plates: Material {front SPM S Tensile strength {26-30 T Thickness {1 3/16" —

Mean pitch of stay tubes in nests 8" x 12" Pitch across wide water spaces 14 3/4" Working pressure {front 197 lbs back 185 lbs

Girders to combustion chamber tops: Material SPM S Tensile strength 28-32 T Depth and thickness of girder

at centre 8 1/2" x 2 3/4" Length as per Rule 2' 7 1/2" Distance apart 8 1/2" No. and pitch of stays

in each two a 10" Working pressure by Rules 298 lbs Combustion chamber plates: Material SPM S

Tensile strength 26-30 T Thickness: Sides 7/8" Back 3/4" Top 7/8" Bottom 7/8"

Pitch of stays to ditto: Sides 9 3/4" x 10" Back 8" x 7 3/4" Top 10" x 8 1/2" Are stays fitted with nuts or riveted over riveted

Working pressure by Rules 207 lbs Front plate at bottom: Material SPM S Tensile strength 26-30 T

Thickness 1 3/16" Lower back plate: Material SPM S Tensile strength 26-30 Thickness 3/4"

Pitch of stays at wide water space 15 5/8" Are stays fitted with nuts or riveted over nuts

Working Pressure 312 lbs Main stays: Material SPM S Tensile strength 26-30 T

Diameter {At body of stay, 2 1/2" No. of threads per inch 9 Area supported by each stay 272 sq. in.

Working pressure by Rules 203 lbs Screw stays: Material SPM S Tensile strength 26-30 T

Diameter {At turned off part, 1 3/8" No. of threads per inch 9 Area supported by each stay 97.5, 62, 85 sq. in.

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