

REPORT ON BOILERS.

No. 8045

17 AUG 1928

Received at London Office

Date of writing Report 4/8/28 When handed in at Local Office 6/8/28 Port of Trinite

No. in Survey held at Manfalcone Date, First Survey July 2 Last Survey July 25 1928
No. of opening Book. 7018 on the T.S.S. Lucia (Number of Visits 5) Gross 2584 Tons Net 1717

Master Manfalcone Built at Manfalcone By whom built Lautiere Nav. Trinit. Yard No. 203 When built 1928
Engines made at Rotterdam By whom made Platt. Droogdock Nuy Engine No. 167/68 When made 1928
Boilers made at Rotterdam By whom made Platt. Droogdock Nuy Boiler No. 468/69 When made 1928
Nominal Horse Power 236 Owners Curacaosche Scheepwants Nuy Port belonging to Willemsstad

See also Rotterdam Report 29.5.28

MULTITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Witrowitzer B & E. Gewerkschaft (Letter for Record 5)

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

No. and Description of Boilers Two single ended multitubular marine 2SB Working Pressure 180 lbs

Tested by hydraulic pressure to 320 lbs Date of test 11.5.28 No. of Certificate 884 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 14.86 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 s.z.

Long. seams Double butt ribble Diameter of rivet holes in circ. seams 13/16" Pitch of rivets 3 13/16"

Percentage of strength of circ. end seams plate 62.9% rivets 58.5% 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

Thickness of butt straps outer 7/8" inner 1" No. and Description of Furnaces in each Boiler Two Marison 2cf.

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 - 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 Secured in plate and nut on outside Working pressure by Rules 210 lbs

Tube plates: Material front SPM S back SPM S Tensile strength 26-30 T Thickness 13/16" front 197 lbs back 185 lbs

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

each 2 a 10" Working pressure by Rules 290 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 welded over

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

Thickness 13/16" Lower back plate: Material SPM S Tensile strength 26-30 T Thickness 3/4"

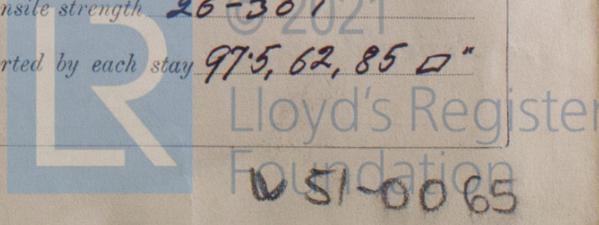
Pitch of stays at wide water space 15 1/8" Are stays fitted with nuts or riveted over nuts

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

Diameter At body of stay, 2 1/2" or Over threads 2 3/4" 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" or Over threads 1 1/2" No. of threads per inch 9 Area supported by each stay 97.5, 62, 85 sq in



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Working pressure by Rules 185, 202-212 Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, 1 5/8" or Over threads 1 3/4"

No. of threads per inch 9 Area supported by each stay 80 sq" Working pressure by Rules 216 lbs

Tubes: Material steel External diameter { Plain 2 3/4" Stay 2 3/4" Thickness { No 8 LSG 2 1/64" - 9/32" No. of threads per inch 9

Pitch of tubes 4" Working pressure by Rules 207 lbs Manhole compensation: Size of opening

shell plate 20 3/4 x 16 3/4 Section of compensating ring 8 1/4 x 8 1/8 No. of rivets and diameter of rivet holes 42 @ 1 3/16

Outer row rivet pitch at ends 7 1/4 Depth of flange if ring flanged 3 1/2" Steam Dome: Material

Tensile strength Thickness of shell Description of longitudinal joint

Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate Rivets

Internal diameter Working pressure by Rules Thickness of crown No. and diameter

stays Inner radius of crown Working pressure by Rules

How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch

of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of { Tubes Steel castings

Number of elements Material of tubes Internal diameter and thickness of tubes

Material of headers Tensile strength Thickness Can the superheater be shut off and the boiler be worked separately

Is a safety valve fitted to every part of the superheater which can be shut off from the boiler

Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per Rules

Pressure to which the safety valves are adjusted Hydraulic test pressure

tubes, castings and after assembly in place Are drain cocks or valves fitted to free the superheater from water where necessary

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

The foregoing is a correct description, Manufacturer

Dates of Survey { During progress of work in shops - - - } Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

while building { During erection on board vessel - - - } 1928 July 2, 12, 17, 19, 25, Total No. of visits five

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

These boilers have been built at Rotterdam under special survey and satisfactorily fitted on board this vessel by the Cantieri Navale Triestino at Monfalcone. The installation for oil fuel has been fitted as per approved plans and in accordance with requirements of Sect. 49 of the Rules 1921-22

Survey Fee ... See Machinery Report When applied for, 192

Travelling Expenses (if any) ... When received, 192

R. Luparic
Engineer-Surveyor to Lloyd's Register of Shipping

Committee's Minute FRI. 31 AUG 1928

Assigned see minute on Tri Rpt 1928

