

## REPORT ON BOILERS.

No. 7634

Date of writing Report

July 29 1927

When handed in at Local Office

Aug 1 1927

Received at London Office

4 AUG 1927

No. in

Reg. Book.

Survey held at Rotterdam &amp; Trieste

Date, First Survey

June 16

Last Survey

July 26

1927

on the T. S. S. Liseta

(Number of Visits five)

Gross 2579

Net 1116

Master

Built at Monfalcone

By whom built

Lauriere Nav. Trieste

Hull No. 185

When built 1927

Engines made at

Rotterdam

By whom made

Rott. Droogdok Nij.

Engine No. 156-57

When made 1927

Boilers made at

Rotterdam

By whom made

Rott. Droogdok Nij.

Boiler No. 442-43

When made 1927

Nominal Horse Power

Owners

Caravanche Sheepwash Works.

Port belonging to Willmarstad

See also Rotterdam Report No 16523

## MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Wilkowitzky &amp; E. Gewerkschaft

Total Heating Surface of Boilers

4168 sq

(Letter for Record S)

No. and Description of Boilers

Two single ended multitubular marine

Is forced draught fitted

Coal or Oil fired

Tested by hydraulic pressure to

320 lbs

Date of test

3.5.27

No. of Certificate

865

Working Pressure

180 lbs

Area of Firegrate in each Boiler

-

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

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

-

Smallest distance between shell of boiler and tank top plating

-

Largest internal dia. of boilers

13' 0"

Length

12' 3"

Thickness

1 3/32"

Are the shell plates welded or flanged

no

Long. seams

Double butt ribble

Diameter of rivet holes in

circ. seams

1 7/16"

Percentage of strength of circ. end seams

plate

62.9

rivets

52.5

Percentage of strength of longitudinal joint

plate

85.4

rivets

88

combined

88.2

Thickness of butt straps

outer 7/8"

inner

-

Material

S.M.S.

Length of plain part

top

-

bottom

Thickness of plates

crown

2 1/32"

Dimensions of stiffening rings on furnace or c.c. bottom

none

End plates in steam space

Material

S.M.S.

How are stays secured

Fixed in plate and nutted outside

Tube plates

Material

front S.M.S.

back S.M.S.

Lean pitch of stay tubes in nests

8" - 12"

Pitch across wide water spaces

14 3/4"

Orders to combustion chamber tops

Material

S.M.S.

centre

8 1/2 x 2 x 3/4

Length as per Rule

2' 7 1/2"

each

two a 10"

Tensile strength

26-30 T

Thickness: Sides

7/8"

Back

3/4"

Pitch of stays to ditto

Sides 9 3/4 x 10"

Back 8 x 7 3/4"

Top 10 x 8 1/2"

Bottom 7/8"

Working pressure by Rules

207 lbs

Thickness

13/16"

Working Pressure

312 lbs

At body of stay

2 1/2"

Over threads

2 3/4"

Working pressure by Rules

203 lbs

At turned off part

1 7/8"

Over threads

1 1/2"

No. of threads per inch

9

Area supported by each stay

272 sq

Screw stays

Material

S.M.S.

No. of threads per inch

9

Area supported by each stay

97.5, 62, 85 sq

Tensile strength

26-30 T



REPORT ON BOILERS  
Working pressure by Rules <sup>185 lbs</sup> 202 76s Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, <sup>1 5/8"</sup> or <sup>1 3/4"</sup> Over threads  
No. of threads per inch 9 Area supported by each stay 84 sq" Working pressure by Rules 216 lbs  
Tubes: Material steel External diameter { Plain 2 3/4" Stay 2 3/4" Thickness { 1108 LSG 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 1 1/8 No. of rivets and diameter of rivet holes 42 a 1 3/16  
Outer row rivet pitch at ends 7 1/4" Depth of <sup>ring</sup> flange if manhole 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  
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  
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  
Rules Pressure to which the safety valves are adjusted Hydraulic test pressure  
tubes, castings and after assembly in place Are drain cocks or valves  
to free the superheater from water where necessary  
Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with yes  
The foregoing is a correct description, Manufact

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 - - - 1927 June 16, July 9, 19, 20, 26 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 Cavaliere Navale Triestino at Monfalcone. The installation of oil fuel has been fitted as per approved plans and in accordance with the requirements of Section 49 of the Rules 1921-22

Survey Fee ... See Machinery Report When applied for, 192  
Travelling Expenses (if any) ± When received, 192  
R. P. Farrier  
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute TUES. 9 AUG 1927  
Assigned See Rpt attached  
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