

# REPORT ON BOILERS.

No. 50749

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of writing Report 19 When handed in at Local Office 19 Port of Hull

in Surrey held at Hull Date, First Survey June 21<sup>st</sup> Last Survey July 20<sup>th</sup> 1940

Book. 35.1-36

163 on the Single Screw Steamer "OOSTPLEIN"

(Number of Visits 11.) Gross 5059 Tons Net 3062

at Pietra Ligure By whom built Cant. Fedl. per Construzioni Navali Yard No. 1 When built 1921

nes made at Genoa By whom made Cantini del Livorno Engine No. 124 When made 1929

rs made at No. By whom made No. Boiler No. 1 When made 1929 (main) 1921 (donkey)

nal Horse Power Owners Netherlands Shipping & Trading Committee Port belonging to Rotterdam

up. by Phs. van Ommersen (London) Ltd.

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

Manufacturers of Steel ✓ (Letter for Record S)

Heating Surface of Boilers 5,830 sq. ft. Is forced draught fitted Yes Coal or Oil fired Coal

nd Description of Boilers 2 cylindrical multitubular single ended Working Pressure 180 lb.

d by hydraulic pressure to ✓ Date of test ✓ No. of Certificate ✓ Can each boiler be worked separately Yes

of Firegrate in each Boiler 64 sq. ft. No. and Description of safety valves to each boiler 2 ordinary type spring loaded

of each set of valves per boiler { per Rule 18.3 sq. in. Pressure to which they are adjusted 180 lb Are they fitted with easing gear Yes.  
as fitted 25.2 "

e of donkey boilers, state whether steam from main boilers can enter the donkey boiler No, as non-return valve fitted

est distance between boilers or uptakes and bunkers or woodwork 2'-0" Is oil fuel carried in the double bottom under boilers No

est distance between shell of boiler and tank top plating 15" Is the bottom of the boiler insulated Yes

st internal dia. of boilers 16'-6" Length 11'-9" Shell plates: Material Steel Tensile strength 28/32 (dry)

ness 1.28" Are the shell plates welded or flanged flanged Description of riveting: circ. seams { end 2R 7/8 3/4  
inter. " " "

seams Little riveted double butt strap Diameter of rivet holes in { circ. seams 1.26"  
long. seams 1.57" Pitch of rivets { 3.6"  
16.7"

tage of strength of circ. end seams { plate 65  
rivets 60.5 Percentage of strength of circ. intermediate seam { plate 65  
rivets 46.7

tage of strength of longitudinal joint { plate 90.5  
rivets 94.86  
combined 97

ss of butt straps { outer 1.28"  
inner " No. and Description of Furnaces in each Boiler 3 Morrison

Stal Tensile strength 26/30 (dry) Smallest outside diameter 4'-0"

of plain part { top Thickness of plates { crown .67"  
bottom " Description of longitudinal joint welded

ions of stiffening rings on furnace or c.c. bottom 7 3.5" x 3.5" x .71"

ates in steam space: Material Steel Tensile strength 26/30 (dry) Thickness .98" Pitch of stays 17.5" x 17.5"

re stays secured Riveted steel outside doubling plate 1" th. x 12" dia. + washer 3/8" th. + nut (inside row)

ates: Material { front Steel Tensile strength { 26/30 (dry) Thickness { .87"  
back " " "

itch of stay tubes in nests 8.27" x 8.27" Pitch across wide water spaces 14.17"

to combustion chamber tops: Material Steel Tensile strength 26/30 (dry) Depth and thickness of girder

8.46" x 2" Length as per Rule 28.75" Distance apart 8.75" No. and pitch of stays

3 at 6.7" Combustion chamber plates: Material Steel

strength 26/30 (dry) Thickness: Sides .68" Back .70" Top .68" Bottom .92"

stays to ditto: Sides 7.95" x 6.69" Back 8.07" x 8.07" Top 8.78" x 6.69" Are stays fitted with nuts or riveted over margin with nuts, thus riveted.

late at bottom: Material Steel Tensile strength 28/32 (dry)

.87" Lower back plate: Material Steel Tensile strength 28/32 (dry) Thickness .83"

stays at wide water space 14.76" x 6.69" Are stays fitted with nuts or riveted over riveted.

ys: Material Steel Tensile strength 28/32 (dry)

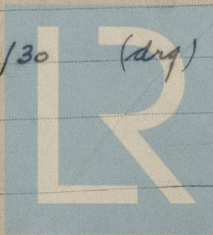
At body of stay, 2.95" No. of threads per inch 9

Over threads 3.25"

ays: Material Steel Tensile strength 26/30 (dry)

At turned off part, 1.75" No. of threads per inch 9

Over threads 2"



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Are the stays drilled at the outer ends no Margin stays: Diameter <sup>At turned off part,</sup> 1.75"  
<sup>or</sup>  
<sup>Over threads</sup> 2"

No. of threads per inch 9

Tubes: Material W.I. External diameter <sup>Plain</sup> 3" swelled to 3.05" Thickness <sup>Stay</sup> 3" 3.27 <sup>Thickness</sup> .16" .32" No. of threads per inch 9

Pitch of tubes 8.27" x 8.27" Manhole compensation: Size of opening in  
 shell plate 15.75" x 19.68" Section of compensating ring 1 1/8" x 8 1/4" No. of rivets and diameter of rivet holes 36 - 1.26"

Outer row rivet pitch at ends 8.25" Depth of flange if manhole flanged 3 1/2" Steam Dome: Material W.I.

Tensile strength \_\_\_\_\_ Thickness of shell \_\_\_\_\_ Description of longitudinal joint \_\_\_\_\_

Diameter of rivet holes \_\_\_\_\_ Pitch of rivets \_\_\_\_\_ Percentage of strength of joint <sup>Plate</sup> \_\_\_\_\_  
<sup>Rivets</sup> \_\_\_\_\_

Internal diameter \_\_\_\_\_ Thickness of crown \_\_\_\_\_ No. and diameter of  
 stays \_\_\_\_\_ Inner radius of crown \_\_\_\_\_

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 <sup>Tubes</sup> \_\_\_\_\_  
<sup>Steel forgings</sup> \_\_\_\_\_  
<sup>Steel castings</sup> \_\_\_\_\_

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 \_\_\_\_\_

Pressure to which the safety valves are adjusted \_\_\_\_\_ Hydraulic test pressure: \_\_\_\_\_  
 tubes \_\_\_\_\_ forgings and 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 22 inclusive for boilers been complied with \_\_\_\_\_

The foregoing is a correct description,

Manufacturer.

Dates of Survey <sup>During progress of</sup> 1940 June 21, July 2, 3, 4. Are the approved plans of boiler and superheater forwarded herewith ☒  
<sup>work in shops - -</sup> 9, 11, 15, 16, 17, 18, 20. (If not state date of approval.)  
<sup>while building</sup> <sup>During erection on</sup> <sup>board vessel - -</sup> Total No. of visits 11.

Is this Boiler a duplicate of a previous case \_\_\_\_\_ If so, state Vessel's name and Report No. \_\_\_\_\_

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

The workmanship and materials of these boilers appear good and the scantlings have been checked as carefully as practicable and found to agree with the plan already submitted. In our opinion these two main boilers are eligible to be classed in the Register Book.

Survey Fee ... £ : : When applied for, 19  
 Travelling Expenses (if any) £ : : When received, 19

W.S. Shields & A. Cline, Juniors.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 13 AUG 1940

Assigned See File 50799



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