

## REPORT ON BOILERS.

No. 6690

11 JUL 1925

Received at London Office

Writing Report

7/7

1925

When handed in at Local Office

8/7/

1925

Port of

Trieste

Survey held at

Trieste

Date, First Survey

May 8

Last Survey

June 27

1925

on the

S/S. IZ RADA

(Number of Visits)

Tons

Gross 3585.66

Net 2209.46

Built at

Smelterland

By whom built

W. Daxford &amp; Sons

Yard No.

When built

1910

made at

Smelterland

By whom made

W. Daxford &amp; Sons

Engine No.

When made

1910

made at

Smelterland

By whom made

W. Daxford &amp; Sons

Boiler No.

When made

1910

Horse Power

300.

Owners

Atanska Plov. 110 PACIC

Port belonging to

Dubrovnik

TITUBULAR BOILERS—MAIN, ~~SECONDARY OR DONKEY~~

Manufacturers of Steel

Heating Surface of Boilers

2 x 2877.7 sq ft

Is forced draught fitted

No

(Letter for Record

S.)

Coal or Oil fired

Coal

Description of Boilers

Two Cylindrical Marine Boilers

2 SB

Working Pressure

160 lbs.

by hydraulic pressure to

240 lbs

Date of test

10/5/25

No. of Certificate

—

Can each boiler be worked separately

yes

Firegrate in each Boiler

64.6 sq ft

No. and Description of safety valves to each boiler

Two spring loaded

of each set of valves per boiler

per Rule

24.6 sq ft

as fitted

Pressure to which they are adjusted

165 lbs

Are they fitted with easing gear

yes

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

No

distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers

distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

internal dia. of boilers

16'-9"

Length

10'-10"

Shell plates: Material

Steel

Tensile strength

28-32

Are the shell plates welded or flanged

Description of riveting: circ. seams

end

Double

inter

Double

Diam.

Treb.

Diameter of rivet holes in

circ. seams

1 13/32"

long. seams

1 9/32"

Pitch of rivets

3 3/4"

4 3/4"

Percentage of strength of circ. end seams

plate

62%

rivets

65.4%

Percentage of strength of circ. intermediate seam

plate

62%

rivets

65.4%

Percentage of strength of longitudinal joint

plate

25.5%

rivets

72.5%

Working pressure of shell by Rules

164 lbs.

Thickness of butt straps

outer 1 1/2"

inner 1 7/32"

No. and Description of Furnaces in each Boiler

3 Marston

Material

Steel

Tensile strength

—

76-30

Smallest outside diameter

4'-2 1/4"

Thickness of plates

top 8"

bottom 8"

Thickness of plates

crown 1 7/32"

bottom 1 7/32"

Description of longitudinal joint

Welded

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

None

Working pressure of furnace by Rules

161 lbs.

Material in steam space

Steel

Tensile strength

76-30

Thickness

1 1/2"

Pitch of stays

1'-8 1/2" x 1'-6 1/2"

Stays secured

With double nuts

Working pressure by Rules

163 lbs.

Material of plates

front Steel

back Steel

Tensile strength

76-30

Thickness

13/16"

Working pressure

front 139 lbs.

back 139 lbs.

Pitch of stay tubes in nests

23 3/4 x 9 1/2"

Pitch across wide water spaces

1'-1 1/2"

Working pressure

front 139 lbs.

back 139 lbs.

Material to combustion chamber tops

Steel

Tensile strength

76-30

Depth and thickness of girder

—

No. and pitch of stays

Steel

Length as per Rule

10' x 1 1/2"

3'-2 1/2"

Distance apart

10 1/2"

Working pressure by Rules

156 lbs.

Combustion chamber plates: Material

Steel

Strength

76-30

Thickness: Sides

4 1/4"

Back

4 1/4"

Top

4 1/4"

Bottom

4 1/4"

Stays to ditto

Sides 9 1/2" x 8"

Back 10" x 9 1/4"

Top 10 1/2" x 8"

Are stays fitted with nuts or riveted over

Nuts

Working pressure by Rules

169 lbs.

Front plate at bottom: Material

Steel

Tensile strength

76-30

Thickness

13/16"

Material of stays at wide water space

Steel

Tensile strength

76-30

Thickness

13/16"

Are stays fitted with nuts or riveted over

Nuts

Main stays: Material

Steel

Tensile strength

—

At body of stay

3"

No. of threads per inch

6

Area supported by each stay

2.62 sq ft

Over threads

165 lbs.

Screw stays: Material

Steel

Tensile strength

—

At turned off part

1 1/2" x 1 1/4" x 1 1/2" x 2"

No. of threads per inch

9

Area supported by each stay

92.5 sq ft

Over threads

—

—

—

—

—

—

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—



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Working pressure by Rules 182 lbs Are the stays drilled at the outer ends — Margin stays: Diameter { At turned off part, 2"  
or  
Over threads —

No. of threads per inch 9 Area supported by each stay 400" Working pressure by Rules 195 lbs

Tubes: Material Steel External diameter { Plain 3 1/2" Thickness { P.L.S.G.  
Stay 3 1/2" No. of threads per inch 9

Pitch of tubes 4 3/4" x 4 3/4" Working pressure by Rules 170 Manhole compensation: Size of —

FRONT. Shell plate 16" x 12" Section of compensating ring equivalent No. of rivets and diameter of rivet holes —

Outer row rivet pitch at ends — Depth of flange if manhole flanged 4" 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 d —

stays — Inner radius of crown — Working pressure by Rules —

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

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 sh —

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 press —

Rules — Pressure to which the safety valves are adjusted — Hydraulic test —

tubes —, castings — and after assembly in place — Are drain cocks or —

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, —

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 - - } — Total No. of visits —

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

The quality of the workmanship and material is good. The scantling of the boiler have been compared with the approved plans and found in order.

For boiler repairs please see Engine and boiler Report. —

Survey Fee —

Travelling Expenses (If any) —

When applied for, —

192

When received, —

192

Committee's Minute —

Assigned —

JUL 31 1925



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