

## REPORT ON BOILERS.

No. 11875

NOV 16 1937

Received at London Office

TRIESTE

Writing Report

8/11/37

1937

When handed in at Local Office

12/11/37

1937

Port of

Survey held at

Monfalcone

Date, First Survey

June 18

Last Survey

Oct 6

1937

on the

M. S. Cellina

(Number of Visits)

four

Gross 6080

Tons

Net 3757

at Trieste

By whom built

Stab. Tecnico

Yard No.

746

When built

1926

made at Trieste

By whom made

Stab. Tecnico

Engine No.

When made

1926

are built at Glasgow

By whom made

Cochran &amp; Co. Ltd

Boiler No.

9253

When made

1925

"Italia" S. R. di Navigazione

Port belonging to

Venezia Trieste

VERTICAL DONKEY BOILER. SEE ALSO GENOA REPORT No 14896

at Glasgow

By whom made

Cochran &amp; Co. Ltd

Boiler No.

16778

When made

1925

Where fixed

In E. R.

Manufacturers of Steel

Heating Surface of Boiler

500 sq

Is forced draught fitted

yes

Coal or Oil fired

oil

Description of Boilers

Vertical multitubular

Working pressure

100 lbs

by hydraulic pressure to

200 lbs

Date of test

15.6.37

No. of Certificate

16778

of Firegrate in each Boiler

—

No. and Description of safety valves to each boiler

2 direct spring loaded

of each set of valves per boiler

per rule

5.43 sq

as fitted

9.8 sq

Pressure to which they are adjusted

100 lbs

Are they fitted with easing gear

yes

whether steam from main boilers can enter the donkey boiler

—

Smallest distance between boiler or uptake and bunkers

odwork

—

Is oil fuel carried in the double bottom under boiler

yes

Smallest distance between base of boiler and tank top plating

18"

Is the base of the boiler insulated

yes

Largest internal dia. of boiler

6'-6"

Height

14'-6"

plates: Material

Steel

Tensile strength

28-32 T

Thickness

15/32" &amp; 19/32"

the shell plates welded or flanged

no

Description of riveting: circ. seams

end. single

inter. double

long. seams double

of rivet holes in

circ. seams 27/32"

long. seams 27/32"

Pitch of rivets

2 1/8"

Percentage of strength of circ. seams

plate 60.4%

rivets 46.1%

of Longitudinal joint

plate 68.2%

rivets 68.8%

combined

ing pressure of shell by rules

170 lbs

Thickness of butt straps

outer

inner

Crown: Whether complete hemisphere, dished partial spherical, or flat

complete hemisphere

Material

steel

le strength

28-32 T

Thickness

27/32"

13/32"

Radius

39"

Working pressure by rules

144 lbs

ription of Furnace: Plain, spherical, or dished crown

Spherical

Material

steel

Tensile strength

26-30 T

ness

1/2"

External diameter

top

bottom

Length as per rule

—

Working pressure by rules

—

of support stays circumferentially

—

and vertically

—

Are stays fitted with nuts or riveted over

—

eter of stays over thread

—

Radius of spherical or dished furnace crown

—

Working pressure by rule

—

ness of Ogee Ring

27/32"

Diameter as per rule

D 6'-6"

a

66"

Working pressure by rule

101 lbs

ustion Chamber: Material

—

Tensile strength

—

Thickness of top plate

—

as if dished

—

Working pressure by rule

—

Thickness of back plate

—

Diameter if circular

—

th as per rule

—

Pitch of stays

—

Are stays fitted with nuts or riveted over

—

eter of stays over thread

—

Working pressure of back plate by rules

—

Plates: Material

front steel

back steel

Tensile strength

26-30 T

Thickness

13/16"

Mean pitch of stay tubes in nests

12" x 10" x 1/16"

prising shell, Dia. as per rule

front 72 3/4"

back 65 1/2"

Pitch in outer vertical rows

4"

Dia. of tube holes FRONT

stay 2 1/16"

plain 2 9/16"

BACK

stay 2 1/2"

plain 2 1/2"

ch alternate tube in outer vertical rows a stay tube

yes

Working pressure by rules

front 102 lbs

back 107 lbs

ers to combustion chamber tops: Material

steel

Tensile strength

—

h and thickness of girder at centre

—

Length as per rule

—

nee apart

—

No. and pitch of stays in each

—

Working pressure by rule

—

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Lloyd's Register

W 18-0105



**Crown stays:** Material                      Tensile strength                      Diameter                      { at body of stay,                      or over threads                     

No. of threads per inch                      Area supported by each stay                      Working pressure by rules                     

**Screw stays:** Material                      Tensile strength                      Diameter                      { at turned off part,                      or over threads                      No. of threads per inch                     

Area supported by each stay                      Working pressure by rules                      Are the stays drilled at the outer ends                     

**Tubes:** Material Steel External diameter { plain 2 1/2" ✓ stay 2 1/2" ✓ Thickness { 11 L.S.G. 11/32" ✓

No. of threads per inch 9 ✓ Pitch of tubes 4" x 3 9/16" ✓ Working pressure by rules 125

**Manhole Compensation:** Size of opening in shell plate 12" x 16" ✓ Section of compensating ring 6" x 11/16" ✓ No. of rivets and of rivet holes 36 a 27/32" ✓ Outer row rivet pitch at ends 4" ✓ Depth of flange if manhole flanged                     

**Uptake:** External diameter                      Thickness of uptake plate                     

**Cross Tubes:** No.                      External diameters {                      Thickness of plates                     

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

The foregoing is a correct description,

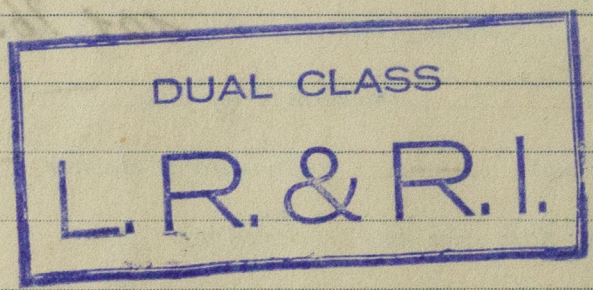
Dates of Survey { During progress of work in shops                      while building { During erection on board vessel 1937 June 18, Sep 1, Oct 2, 6

Is the approved plan of boiler forwarded herewith (If not state date of approval.)                     

Total No. of visits four

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) Please see also Genoa Rpt. 14

This Donkey Boiler has been installed on board the M. S. Cell and securely fastened. It has been fitted for burning oil and the installation has been made under special survey and in accordance with Section 20 D of the Rules and tested satisfactorily under working conditions. The mountings have been examined and found in order. The safety valves have been examined and adjusted to blow at 100 lbs and it is submitted the boiler is eligible to have the records of DBS 10.37 (NDB made 19 refitted 1937)



Survey Fee ... Line 200 : When applied for, 13/11/37

Travelling Expenses (if any) £                      : When received, 29/11/38

Mar 31/1

Committee's Minute FRI 3 DEC 1937

Assigned Su Gen 15078

