

REPORT ON BOILERS.

No. 6842

12 OCT 1925

Received at London Office

Date of writing Report

Oct 3 1925

When handed in at Local Office

Oct 6 1925 Port of Trieste

No. in
g. Book.

1819 on the

Survey held at

Trieste

Date, First Survey

Sep 14

Last Survey

Sep 26 1925

(Number of Visits

6

Gross

998

Tons

Net

580

"PROMONTORE"

It at

Hakodate

By whom built

Hakodate Dock Co.

Yard No. ✓

When built

1917.

Engines made at

Hakodate

By whom made

Hakodate Dock Co.

Engine No. ✓

When made

1917.

Boilers made at

Southampton

By whom made

from Llanowest C. 30th May 1924.

Boiler No. ✓

When made

1920

Boilers

Mr. Carlo Martindale Sec. a.g.?

Port belonging to

Trieste

VERTICAL DONKEY BOILER.

Made at

By whom made

Boiler No. ✓

When made ✓

Where fixed

Engine room

Manufacturers of Steel

Total Heating Surface of Boiler

155 sq feet.

Is forced draught fitted

No

Coal or Oil fired

Coal

Number and Description of Boilers

1 Vertical

Working pressure

Tested by hydraulic pressure to

130 lbs 10'

Date of test

16.9.25

No. of Certificate

Area of Firegrate in each Boiler

25 sq ft.

No. and Description of safety valves to each boiler

2 spring loaded.

Number of each set of valves per boiler

per rule 2 x 4" 403.
as fitted

Pressure to which they are adjusted

100 lbs 10'

Are they fitted with easing gear

Yes.

Whether steam from main boilers can enter the donkey boiler

No

Smallest distance between boiler ~~comptake~~ and bunkers

Woodwork

4"

Is oil fuel carried in the double bottom under boiler

No

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated

✓

Largest internal dia. of boiler

6'6"

Height

12'5"

Shell plates: Material

Steel

Tensile strength ✓

Thickness

5/8"

Are the shell plates welded or flanged

No

Description of riveting:

Top end S.R.L.T.
inter. S.R.L.T.
Bottom end D.R.

long. seams

D.R.L.T.

Number of rivet holes in

circ. seams 1 1/2"
long. seams 1"

Pitch of rivets

2 1/2"
3"

Percentage of strength of circ. seams

plate 53
rivets 52

of Longitudinal joint

plate 66
rivets 68
combined ✓

Working pressure of shell by rules

114 lbs.

Thickness of butt straps

outer None
inner

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

Dished ✓

Material

Steel

Tensile strength ✓

Thickness

9/16" ✓

Radius

81" ca. ✓

Working pressure by rules

160 lbs 10' ✓

Description of Furnace: Plain, spherical, or dished crown

Plain with dished crown

Material

Steel ✓

Tensile strength ✓

Thickness

9/16" ✓

External diameter

top 60"
bottom 70.5" ✓

Length as per rule

10" ✓

Working pressure by rules

125 lbs 10' ✓

Pitch of support stays circumferentially

8" ✓

and vertically

10 3/8" max. ✓

Are stays fitted with nuts or riveted over

Rivets over
of crown.

Diameter of stays over thread

1 3/16" 1 1/2" on plan

Radius of spherical or dished furnace crown

53" ca. ✓

Working pressure by rule

160 lbs.

Thickness of Ogee Ring ✓

Diameter as per rule

D
d

Working pressure by rule

Combustion Chamber: Material ✓

Tensile strength

Thickness of top plate

Radius if dished

Working pressure by rule

Thickness of back plate

Diameter if circular

Length as per rule

Pitch of stays

Are stays fitted with nuts or riveted over

Diameter of stays over thread

Working pressure of back plate by rules

Tube Plates: Material

front ✓
back

Tensile strength

Thickness

Mean pitch of stay tubes in nests

Comprising shell, Dia. as per rule

front
back

Pitch in outer vertical rows

Dia. of tube holes FRONT

stay
plain

BACK

stay
plain

Working pressure by rules

front
back

Each alternate tube in outer vertical rows a stay tube

Tensile strength

Girders to combustion chamber tops: Material ✓

Length as per rule

Depth and thickness of girder at centre

Working pressure by rule

Distance apart

No. and pitch of stays in each

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Foundation

Crown stays: Material Steel Tensile strength ✓ Diameter { at body of stay, 1 1/2" + 5" or over threads 4"

No. of threads per inch 8 Area supported by each stay 7050 Working pressure by rules 265 4/10

Screw stays: Material See over page Tensile strength ✓ Diameter { at turned off part, or over threads 1 1/2" dia No. of threads per inch 204 4/10

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

Tubes: Material ✓ External diameter { plain stay ✓ Thickness ✓

No. of threads per inch ✓ Pitch of tubes ✓ Working pressure by rules ✓

Manhole Compensation: Size of opening in shell plate 14 1/8" x 10 1/2" Section of compensating ring 6" x 1/2" 8/80 plan No. of rivets and di

of rivet holes 38 x 1" dia Outer row rivet pitch at ends 3 1/4" Depth of flange if manhole flanged ✓

Uptake: External diameter oval 26 1/2" x 15 1/2" Thickness of uptake plate 9/16"

Cross Tubes: No. 2 External diameters { 13" Thickness of plates 1/2"

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

The foregoing is a correct description,

Manufa

Dates of Survey while building { During progress of work in shops - - } During erection on board vessel - - }

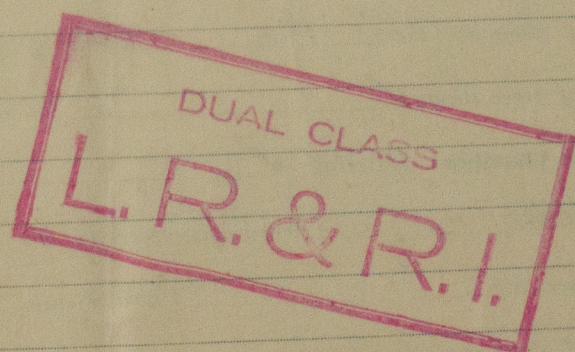
Is the approved plan of boiler forwarded herewith (If not state date of approval.)

Total No. of visits

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

The donkey boiler of this vessel has been examined internally and externally, and found to be in good condition. No makers drawing being available a sketch giving the dimensions and scantling is submitted for the consideration of the Committee. No information is available regarding the tests of the material. The boiler has been tested by hydraulic pressure to 130 lbs/sq in and was found tight at that pressure. It is submitted that this donkey boiler is suitable for a vessel classed in the society's register book.

Please see Tri Rpt. No 6302 (Ref from No 9) on main and donkey boilers



Survey Fee ... £240- When applied for, 7/10/25
Travelling Expenses (if any) £ : : When received, 19

H. Lockney.

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute FRI. 16 OCT 1925

Assigned



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