

REPORT ON BOILERS.

No. 10233

Date of writing Report 5/3/28

When handed in at Local Office 5/3/28

Received at London Office 10 MAR 1928

Port of

GENOA

No. in Reg. Book.

SPEZIA & GENOA

Date, First Survey

Jan. 5th

Last Survey

Feb. 11th

1928

(Number of Visits)

8

Gross

6284

Tons

3817

Master

Built at

Naples

By whom built

Cant. Nav. "Ilva"

Yard No.

When built

1922

Engines made at

TURIN

By whom made

FIAT

Boilers made at

By whom made

Engine No.

1342

When made

1928

Nominal Horse Power

610

Owners

Soc. Commerciale di Nav.

Boiler No.

When made

Refitted 1928.

Port belonging to

Genoa

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

Manufacturers of Steel

Total Heating Surface of Boilers

185 m²

(Letter for Record)

S

No. and Description of Boilers

1 Cylinder Multitubular

Is forced draught fitted

No

Coal or Oil fired

Oil

Tested by hydraulic pressure to

11 kg.

Date of test

6/2/28

No. of Certificate

Can each boiler be worked separately

-

Area of Firegrate in each Boiler

6.6 m²

No. and Description of safety valves to each boiler

2 Spring loaded

Area of each set of valves per boiler

per Rule

16941 m²/m²

as fitted

22620

Pressure to which they are adjusted

7 kg.

Are they fitted with easing gear

Yes

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

No other boiler.

Smallest distance between boilers or uptakes and bunkers

about 7 feet

Is oil fuel carried in the double bottom under boilers

Yes

Smallest distance between shell of boiler and tank top plating

1114 m/m.

Is the bottom of the boiler insulated

No

Largest internal dia. of boilers

4098 m/m

Length

3000 m/m

Shell plates: Material

Steel

Tensile strength

Assumed 44 kg.

Thickness

26 m/m.

Are the shell plates welded or flanged

Description of riveting: circ. seams

end

D.R. Lap

long. seams

T.R.D.B.S.

Diameter of rivet holes in

circ. seams

28

long. seams

28

Pitch of rivets

110

Percentage of strength of circ. end seams

plate

74.5%

rivets

35.2%

Percentage of strength of circ. intermediate seam

plate

74.5%

rivets

35.2%

Percentage of strength of longitudinal joint

plate

85.2%

rivets

95.6%

combined

89.6%

Working pressure of shell by Rules

10.6 kg/cm²

Thickness of butt straps

outer

21 m/m

inner

21 m/m

No. and Description of Furnaces in each Boiler

3 Corrugated

Material

Steel

Tensile strength

Assumed 41 kg.

Smallest outside diameter

1088 m/m.

Length of plain part

top

-

bottom

-

Thickness of plates

crown

13

bottom

13

Description of longitudinal joint

Weld

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

None

Working pressure of furnace by Rules

12.1 kg/cm²

and plates in steam space: Material

Steel

Tensile strength

Assumed 41 kg.

How are stays secured

Screwed into pads and riveted over.

Working pressure by Rules

12.4 kg/cm²

Tube plates: Material

front

Steel

back

Steel

Tensile strength

Assumed 41 kg.

Can pitch of stay tubes in nests

222.5 m/m

Pitch across wide water spaces

332 m/m

Working pressure

front

10 kg/cm²

back

13.4 kg/cm²

Orders to combustion chamber tops: Material

Steel

Tensile strength

Assumed 44 kg.

centre

171 x 40 m/m.

Length as per Rule

680

Distance apart

170

Depth and thickness of girder

each

3 at 178

Working pressure by Rules

166 kg/cm²

Combustion chamber plates: Material

Steel

Tensile strength

Assumed 41 kg.

Thickness: Sides

13

Back

13

Top

13

Bottom

21

Pitch of stays to ditto: Sides

178 x 178

Back

178 x 178

Top

170 x 178

Are stays fitted with nuts or riveted over

Nuts

Working pressure by Rules

13.3 kg/cm²

Front plate at bottom: Material

Steel

Tensile strength

Assumed 41 kg.

Thickness

20 m/m

Lower back plate: Material

Steel

Tensile strength

Assumed 41 kg.

Thickness

21

Pitch of stays at wide water space

340 x 178

Are stays fitted with nuts or riveted over

Riveted.

Working Pressure

11.6 kg/cm²

Main stays: Material

Steel

Tensile strength

Assumed 44 kg.

At body of stay,

65

Over threads

73

No. of threads per inch

6

Working pressure by Rules

16.6 kg/cm²

Screw stays: Material

Steel

Tensile strength

Assumed 41 kg.

At turned off part,

-

Over threads

32

No. of threads per inch

12

Working pressure by Rules

16.6 kg/cm²

Screw stays: Material

Steel

Tensile strength

Assumed 41 kg.

At turned off part,

-

Over threads

32

No. of threads per inch

12

Working pressure by Rules

16.6 kg/cm²

Screw stays: Material

Steel

Tensile strength

Assumed 41 kg.

At turned off part,

-

Over threads

32

No. of threads per inch

12

Working pressure by Rules

16.6 kg/cm²

Screw stays: Material

Steel

Tensile strength

Assumed 41 kg.

At turned off part,

-

Over threads

32

No. of threads per inch

12

Working pressure by Rules

16.6 kg/cm²

Screw stays: Material

Steel

Tensile strength

Assumed 41 kg.

At turned off part,

-

Over threads

32

No. of threads per inch

12

Working pressure by Rules

16.6 kg/cm²

Screw stays: Material

Steel

Tensile strength

Assumed 41 kg.

At turned off part,

-

Over threads

32

No. of threads per inch

12

Working pressure by Rules

16.6 kg/cm²

Screw stays: Material

Steel

Tensile strength

Assumed 41 kg.

At turned off part,

-

Over threads

32

No. of threads per inch

12

Working pressure by Rules

16.6 kg/cm²

Screw stays: Material

Steel

Tensile strength

Assumed 41 kg.

At turned off part,

-

Over threads

32

No. of threads per inch

12

Working pressure by Rules

16.6 kg/cm²

Screw stays: Material

Steel

Tensile strength

Assumed 41 kg.

11119-0125

Working pressure by Rules **11.6 Kg** Are the stays drilled at the outer ends **No** Margin stays: Diameter { At turned off part, or Over threads **38** ✓
 No. of threads per inch **12** ✓ Area supported by each stay **178 x 264** Working pressure by Rules
 Tubes: Material **Steel** External diameter { Plain **63** ✓ Stay **63** Thickness { **4.76** No. of threads per inch **12**
 Pitch of tubes **89 x 89** Working pressure by Rules Manhole compensation: Size of opening in shell plate **450 x 350** ✓ Section of compensating ring **17 x 320** No. of rivets and diameter of rivet holes **34 at 24**
 Outer row rivet pitch at ends **100** Depth of flange if manhole flanged **-** Steam Dome: Material **None**
 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 of stays **-** Inner radius of crown **-** Working pressure by Rules **-**
 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 **None** 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 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 **-** Working pressure as per Rules **-** Pressure to which the safety valves are adjusted **-** Hydraulic test pressure: tubes **-** 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 23 inclusive for boilers been complied with **-**

The foregoing is a correct description,

Manufacturers

Dates of Survey { During progress of work in shops - - } Are the approved plans of boiler ~~not forwarded~~ forwarded herewith **26/1/28** (If not state date of approval.)
 while building { During erection on board vessel - - } **1928-Jan. 5, 13, 30, 31, Feb. 1, 6, 6, 11,** Total No. of visits **8**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **The Boiler is stated to have been originally fitted on the Italian war vessel "PORT BON" now broken up. The boiler has been examined internally and externally and found in a good state of preservation. Its scantlings are in accordance with drawing approved in Secretary's letter "E" of 26th January 1928. It has been satisfactorily fitted on board on substantial stools at the fore end of the machinery space starboard side. It is fitted for oil fuel in accordance with the requirements of the Rules. It is recommended that the notation D.B. (refitted) 1928, be made and a working pressure of 100 lb. be inserted in the Register Book as no more is required by the owners. It has not been possible to ascertain the exact date & place of construction of the boiler.**

DUAL SURVEY
L. E. & R. L.

Survey Fee **Lat. 1350.-** When applied for **7/3/28** 192 **GCK**
 Travelling Expenses (if any) **-** When received **18.6** 192 **8.6**

G. Clark Vaux **Alexander**
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUES. 27 MAR 1928

FRI. 14 MAY 1929

Assigned

DB refitted 28, 100lb

FRI. 25 APR 1930

FRI. 19 JUL 1929



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