

REPORT ON BOILERS.

No. 95463

Received at London Office SEP 28 1937

of writing Report

10

When handed in at Local Office

27/9/37

Port of

Newcastle-on-Tyne

Survey held at

Newcastle on Tyne

Date, First Survey

25 May

Last Survey

17 Sept. 1937

(Number of Visits 17+8

Gross 6256

Net 3594

on the m/s Ormala

Built at Monfalcone

By whom built Cantieri Riuniti dell'Adriatico

Yard No. 1136

When built 1938

Lines made at Trieste

By whom made Cant. Riuniti dell'Adriatico

Engine No. 5257

When made 1938

Boilers made at

Newcastle on Tyne

By whom made R.W. Hawthorn, Leslie & Co. Ld.

Boiler No. 9968

When made 1937

Indicated Horse Power 2464 = 164

Owners N.V. "La Corona"

Port belonging to Greenwich

MULTITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

The Steel Company of Scotland

(Letter for Record 5)

Heating Surface of Boilers

2464 sq. ft.

Is forced draught fitted

Yes

Coal or Oil fired

Oil fired

Description of Boilers

One Single ended Multi-tubular

Working Pressure

180 lbs

Tested by hydraulic pressure to

320 lbs

Date of test

17-9-37

No. of Certificate

737

Can each boiler be worked separately

No. of Firegrate in each Boiler

Oil fired No. and Description of safety valves to each boiler

Two 3 1/4" dia Spring loaded

No. of each set of valves per boiler

per Rule 15.8 sq. in.

as fitted 16.58

Pressure to which they are adjusted 185 lbs

Are they fitted with easing gear

Yes

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

Is oil fuel carried in the double bottom under boilers

deck

Least distance between boilers or uptakes and bunkers or woodwork

deck

Least distance between shell of boiler and tank top plating

3'-0"

Is the bottom of the boiler insulated

Yes

Least internal dia. of boilers

14'-3 5/8"

Length

11'-6"

Shell plates: Material

Steel

Tensile strength

28-32 tons

Thickness

1 3/16"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end D.R. lap.

seams T.R. dbb butt straps

Diameter of rivet holes in

circ. seams 1 1/4"

Pitch of rivets

3 1/2"

Percentage of strength of circ. end seams

plate 64.28

rivets 48.5

Percentage of strength of circ. intermediate seam

plate 85.7

Percentage of strength of longitudinal joint

plate 85.7

rivets 91

Working pressure of shell by Rules

183 lbs

Thickness of butt straps

outer 29/32"

inner 1 1/32"

No. and Description of Furnaces in each Boiler

3 Morrison

Material

Steel

Tensile strength

26-30 tons

Smallest outside diameter

3'-7 1/8"

Thickness of plain part

top 6"

bottom 2-6 3/4"

Thickness of plates

crown 9/16"

bottom 7/8" c.c. bottom

Description of longitudinal joint

Furnace fire welded

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

none

Working pressure of furnace by Rules

189 lbs

Plates in steam space: Material

Steel

Tensile strength

26-30 tons

Thickness

1 1/32"

Pitch of stays

17 3/4" x 21"

Are stays secured

Nuts inside & outside

Working pressure by Rules

183 lbs

End plates: Material

front Steel

back

Tensile strength

26-30 tons

Thickness

15/16"

Pitch of stay tubes in nests

9"

Pitch across wide water spaces

13 3/4"

Working pressure

front 242 lbs

back 293 lbs

Boilers to combustion chamber tops: Material

Steel

Tensile strength

28-32 tons

Depth and thickness of girder

Centre

10" x 1 1/2"

Length as per Rule

2'-10 31/64"

Distance apart

10"

No. and pitch of stays

Each

3 at 8"

Working pressure by Rules

194 lbs

Combustion chamber plates: Material

Steel

Tensile strength

26-30 tons

Thickness: Sides

45/64"

Back

45/64"

Top

45/64"

Bottom

7/8"

Thickness of stays to ditto: Sides

8" x 8"

Back

8" x 8"

Top

8" x 10"

Are stays fitted with nuts or riveted over

marginal stays - nuts inside & out

Working pressure by Rules

180 lbs

Front plate at bottom: Material

Steel

Tensile strength

26-30 tons

Thickness

15/16"

Lower back plate: Material

Steel

Tensile strength

26-30 tons

Thickness

27/32"

Thickness of stays at wide water space

15" x 8"

Are stays fitted with nuts or riveted over

Nuts

Working Pressure

200 lbs

Main stays: Material

Steel

Tensile strength

28-32 tons

At body of stay

3"

No. of threads per inch

6

Area supported by each stay

(21 x 17 3/4) - 6.10 sq. in.

Over threads

Working pressure by Rules

183 lbs

Screw stays: Material

Steel

Tensile strength

26-30 tons

At turned off part

1 1/2" x 15/8"

No. of threads per inch

9

Area supported by each stay

(8 x 8) - 1.45 sq. in.

Over threads

Working pressure by Rules

183 lbs

No. of threads per inch

9

Area supported by each stay

(8 x 8) - 1.45 sq. in.

Working pressure by Rules 200 lb Are the stays drilled at the outer ends No Margin stays: Diameter 1 3/4"
No. of threads per inch 9 Area supported by each stay (1 1/2" x 8") - 2.03 sq in Working pressure by Rules 200 lb
Tubes: Material "Corrosite" External diameter 2 3/4" Thickness 5/16" & 3/8" No. of threads per inch 9
Pitch of tubes 4" x 3 7/8" Working pressure by Rules 215 lb Manhole compensation: Size of opening 40 g 1 1/4 dia
shell plate 21" x 17" Section of compensating ring 21" x 1 3/16" No. of rivets and diameter of rivet holes 40 g 1 1/4 dia
Outer row rivet pitch at ends 8 3/4" Depth of flange if manhole flanged 3 1/2" 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
Internal diameter _____ Working pressure by Rules _____ Thickness of crown _____ No. and diameter of rivets _____
stays _____ Inner radius of crown _____ Working pressure by Rules _____
How connected to shell _____ Size of doubling plate under dome _____ Diameter of rivet holes and
of rivets in outer row in dome connection to shell _____

Type of Superheater None Manufacturers of None
Number of elements _____ Material of tubes _____ Internal diameter and thickness of tubes _____
Material of headers _____ Tensile strength _____ Thickness _____ Can the superheater be shut off
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 _____
Rules _____ Pressure to which the safety valves are adjusted _____ Hydraulic test pressure _____
tubes _____, castings _____ and after assembly in place _____ Are drain cocks or valves _____
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,
R. & W. HAWTHORN, LESLIE & CO. LIMITED

Dates of Survey 1937
During progress of work in shops -- May 25.31. June 4.10.15.30. July 7.12.19.23. Aug. 6.18.19.25. Sep. 6.10.17.
while building During erection on board vessel -- 1938 Mar 8.9. Apr 4.12.25. May 17.31 June 4
Are the approved plans of boiler and superheater forwarded to the Director No. 25/1
(If not state date of approval.)
Total No. of visits 17 + 8

Is this Boiler a duplicate of a previous case Yes except material of tubes & heating surface If so, state Vessel's name and Report No. Anaxylus Nov Rpt. 9214
Solarium Nov Rpt. 9283

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

This boiler has been constructed under special survey in accordance with the Rules and approved plan, and the material and workmanship are good.

The mountings were tested to twice the working pressure.
The boiler is to be forwarded to Italy (Monfalcone) for fitting on board the vessel.

The boiler has been fitted on board and re-surveys for the arrangement for burning O.F. has been fitted under special survey, tested as per Rules and found in order. The boiler has been examined at the inside and outside and found in order. The safety valves were adjusted to blow at 185 lbs.

Trieste 9.6.38

27 SEP 1937

Survey Fee ... £ 16 : 8 : -

When applied for, 19

Travelling Expenses (if any) £ :

When received, 29.9.19 37 6/10

A. Watt.

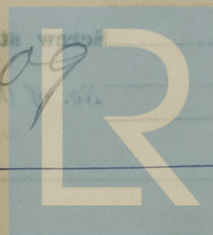
Engineer Surveyor to Lloyd's Register of Ships

Committee's Minute

TUE 28 JUN 1938

Assigned

See Tri. Rpt. 12109



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Foundation