

REPORT ON BOILERS.

No. 11818

SEP 27 1937

Received at London Office

Writing Report

22/9/37

When handed in at Local Office

23/9/37

Port of TRIESTE

in Book

Survey held at

Moufalcone

Date, First Survey

June 18

Last Survey

Sept 10 1937

(Number of Visits

5

Gross

6072

Tons

Net 3748

on the

M/S Stella

at

Trieste

By whom built

Stabilimento Tecnico

Yard No.

When built 1926

was made at

Turin

By whom made

Triat Fab. Gr. Motari

Engine No.

When made 1937

was made at

Glasgow

By whom made

Cochran & Co. Ltd.

Boiler No.

9254

When made 1925

was

"Flavia" S. A. di Navigazione

Port belonging to

Venice

VERTICAL DONKEY BOILER. SEE ALSO GENOA REPORT No. 14895

Glasgow By whom made Cochran & Co. Ltd Boiler No. 9254 When made 1925 Where fixed In E. R.

Manufacturers of Steel

Heating Surface of Boiler

500 sq ft

Is forced draught fitted

Coal or Oil fired

oil

Description of Boilers

Vertical multitubular

Working pressure

100 lbs

by hydraulic pressure to

200 lbs

Date of test

5.6.37

Original

No. of Certificate 16779

Firegrate in each Boiler

No. and Description of safety valves to each boiler

Two direct spring loaded

each set of valves per boiler

per rule 5.430" as fitted 9.80"

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

no

Smallest distance between boiler or uptake and bunkers

work

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" & 19/32"

shell plates welded or flanged

no

Description of riveting: circ. seams

single double

long. seams

double

rivet holes in

circ. seams 27/32" long. seams 27/32"

Pitch of rivets

2 1/8" 2.663"

Percentage of strength of circ. seams

plate 60.4% rivets 46.1%

of Longitudinal joint

plate 68.2% rivets 68.8% combined

pressure of shell by rules

110 lbs

Thickness of butt straps

outer inner

Whether complete hemisphere, dished partial spherical, or flat

complete hemisph. Material Steel

strength

28-32 T

Thickness

27/32, 13/32

Radius

39"

Working pressure by rules

144 lbs

Form of Furnace

Plain, spherical, or dished crown

typical

Material

Steel

Tensile strength 26-30 T

Approx. height

1/2"

External diameter

top bottom

Length as per rule

Working pressure by rules

no

Whether support stays circumferentially

and vertically

Are stays fitted with nuts or riveted over

When stays over thread

Radius of spherical or dished furnace crown

33"

Working pressure by rule 125 lbs

Thickness of Ogee Ring

27/32"

Diameter as per rule

D 6'-6" a 6.6"

Working pressure by rule 101 lbs

Whether combustion chamber

Material

no

Tensile strength

Thickness of top plate

no

Whether dished

no

Working pressure by rule

Thickness of back plate

Diameter if circular

Whether stays per rule

no

Pitch of stays

Are stays fitted with nuts or riveted over

Whether stays over thread

no

Working pressure of back plate by rules

no

Whether stays

no

Material

front back

Steel

Tensile strength

26-30 T

Thickness

13/16" 23/32"

Mean pitch of stay tubes in nests

12"x10" 1 1/16"

Whether stays

front back

72 3/4" 65 1/2"

Pitch in outer vertical rows

4" 4"

Dia. of tube holes

FRONT BACK

stay 2 1/16" plain 2 7/16" stay 2 1/2" plain 2 1/2"

Whether alternate tube in outer vertical rows a stay tube

yes

Working pressure by rules

front 102 lbs back 107 lbs

Whether combustion chamber tops

Material

Steel

Tensile strength

no

Whether thickness of girder at centre

no

Length as per rule

no

Whether stays

no

No. and pitch of stays in each

Working pressure by rule

no

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REPORT ON BOILERS

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

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 { M.L.S. 11/32"

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

Manhole Compensation: Size of opening in shell plate 12" x 16" Section of compensating ring 6" x 1 1/4" No. of rivets and of rivet holes 36 a 2 7/32" 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,

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

Dates of Survey { During progress of work in shops - - } Total No. of visits five
 while building { During erection on board vessel - - } 1937 June 18, 25 July 16, Aug 19 Sep 10

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Please see also Genl Rpt. 1

This Doukey Boiler has been installed on board the M. S. Tella and securely fastened. It has been fitted for burning oil fuel and the installation has been made under special survey and in accordance with Sect. 20 D of the Rules and tested satisfactorily under working condition. The mountings have been examined and found or put in order. The safety valves have been adjusted to blow at 100 lbs and it is submitted the Boiler is eligible to have the Rules of DBS 9.37 (made 1925 Refitted 1937)

DUAL CLASS
L.R. & R.I.

Survey Fee ... £ 200 : } When applied for, 20/9/37
 Travelling Expenses (if any) £ ✓ : } When received, 29/12/37
4/1/38

R. J. Sparrow
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute FRI 15 OCT 1937
 Assigned See Trs 11818

