

REPORT ON BOILERS.

No. 553

Date of writing Report

7/12/ 36

When handed in at Local Office

7/12/ 36

Port of

Received at London Office

11 DEC 1936

SPLIT

No. in
Reg. Book.

Survey held at

SPLIT

Date, First Survey

24th. Nov.

Last Survey

30th. Nov.

1936

89765 on the Steel Screw Steamer "PLAVNIK" ex "MATIGNON"

(Number of Visits 2)

Gross 2711
Tons Net 1649

Master

Built at Hamburg

By whom built

Schiffsw(V.J.&Sch.)

Yard No.

When built 1922

Engines made at Hannover

By whom made

Hannoverische Masch.A.G.

Engine No.

When made 1922

Boilers made at Hamburg

By whom made

Schiffsw(V.J.&Sch.) A.G.

Boiler No.

When made 1922

Nominal Horse Power 226

Owners

Brod.Ako.Drustvo "Oceania"

Port belonging to

Susak

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

Manufacturers of Steel

Total Heating Surface of Boilers

217.5sq.m. x 2 = 435

Is forced draught fitted

Yes

(Letter for Record)

Coal or Oil fired Coal

No. and Description of Boilers 2 Multitubular

Working Pressure 13kg./sq.cm.

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately Yes

Area of Firegrate in each Boiler

5.3sq.m. = 57 #

No. and Description of safety valves to each boiler

2 valves in one chest. Valves and springs

Area of each set of valves per boiler

per Rule as fitted 37.3sq.in.

Pressure to which they are adjusted

Are they fitted with easing gear Yes

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

Smallest distance between boilers or uptakes and bunkers

12"

Is oil fuel carried in the double bottom under boilers No

Smallest distance between shell of boiler and tank top plating

19"

Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers

4300m/m

Length

3808m/m

Shell plates: Material

Tensile strength

Thickness 29m/m

Are the shell plates welded or flanged

Flanged

Description of riveting: circ. seams

Double riveted

long. seams 4 rows of rivets

Diameter of rivet holes in

circ. seams 34m/m

long. seams 34m/m

Pitch of rivets 110.5m/m

119 & 238m/m

Percentage of strength of circ. end seams

plate rivets

Percentage of strength of circ. intermediate seam

plate rivets

Percentage of strength of longitudinal joint

plate rivets combined

Working pressure of shell by Rules

Thickness of butt straps

outer 22m/m

inner 22m/m

No. and Description of Furnaces in each Boiler

3 Morison corrugated

Material

Tensile strength

Smallest outside diameter 1029m/m

Length of plain part

top

Thickness of plates

crown 14.5m/m

bottom 14.5m/m

Description of longitudinal joint welded

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

Working pressure of furnace by Rules

End plates in steam space: Material

Tensile strength

Thickness 24m/m

Pitch of stays 410 & 420m/m

How are stays secured Screwed into plates with nuts each side

Working pressure by Rules

Tube plates: Material

front back

Tensile strength

Thickness 24m/m

24m/m

Mean pitch of stay tubes in nests

220 x 210m/m

Pitch across wide water spaces

360m/m

Working pressure

front back

Girders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

at centre 225 x 18m/m

Length as per Rule

820

Distance apart 200m/m

No. and pitch of stays

in each 3 at 200m/m

Working pressure by Rules

Combustion chamber plates: Material

Tensile strength

Thickness: Sides 17.5m/m

Back 17m/m

Top 17.5m/m

Bottom 22m/m

Pitch of stays to ditto: Sides

170 & 200 x 200

Back 190 x 195m/m

top 200 x 200m/m

Are stays fitted with nuts or riveted over

Top riveted over

Back & sides nut

Working pressure by Rules

Front plate at bottom: Material

Tensile strength

Thickness 24m/m

Lower back plate: Material

Tensile strength

Thickness 24m/m

Pitch of stays at wide water space

400 x 500m/m

330

Are stays fitted with nuts or riveted over

Nuts inside and outside

Working Pressure

Main stays: Material

Tensile strength

Diameter

At body of stay 70m/m

or Over threads 76.2 & 69.8m/m

No. of threads per inch 10

Area supported by each stay

Working pressure by Rules

Screw stays: Material

Tensile strength

Diameter

At turned off part 2", 1 3/4" & 1 1/2"

or Over threads 50.8; 44.4; 38m/m

No. of threads per inch 10

Area supported by each stay

003474-003478-0263

© 2020

Lloyd's Register
Foundation

Working pressure by Rules ☒ Are the stays drilled at the outer ends **No** Margin stays: Diameter ☒ At thread of stay **1 1/2"**
No. of threads per inch **10** Area supported by each stay Working pressure by Rules ☒
Tubes: Material ☒ External diameter ☒ Plain **76m/m** Thickness ☒ **4m/m** No. of threads per inch **10**
Pitch of tubes **105 x 110m/m** Working pressure by Rules ☒ Manhole compensation: Size of opening in
Shell plate **410 x 510m/m** Section of compensating ring **275x22m/m** No. of rivets and diameter of rivet holes **42- 34m/m dia.**
Outer row rivet pitch at ends **180m/m** Depth of flange if manhole flanged **70m/m** Steam Dome: Material ☒
Tensile strength ☒ Thickness of shell ☒ Description of longitudinal joint ☒
Diameter of rivet holes ☒ Pitch of rivets ☒ Percentage of strength of joint ☒
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 fitted.** Manufacturers of ☒ Tubes ☒
Number of elements ☒ Material of tubes ☒ Steel castings ☒
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 22 inclusive for boilers been complied with ☒

The foregoing is a correct description ☒

Date of Survey ☒ During progress of work in shops - - -
while building ☒ During erection on board vessel - - -

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) ☒

Total No. of visits ☒

Is this Boiler a duplicate of a previous case ☒ If so, state Vessel's name and Report No. ☒

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

See London letter, E.3/11/36, addressed Society's Surveyors at Trieste.

Boilers examined internally and externally, with doors and fastenings, and found in good condition.

Scantlings verified and found in accordance with approved plan mentioned in above letter.

Furnaces, longitudinal stays and front tube plates in way of wide water spaces specially examined and found free from signs of strain.

Safety valves examined and areas measured.

These boilers are, in my opinion, eligible to be classed in the Register Book, subject to the boiler mountings being examined and found in order, and to have record of survey deferred until the machinery inspection has been completed.

The approved plan has been returned to the Trieste Surveyors who will forward verified copies for reference purposes.

Survey Fee ... **Bin. 1450** :

When applied for, **7/12/ 36**

Travelling Expenses (if any) £ :

When received, **4.1 37**

4/1/37

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

THURS 31 DEC 1936

Assigned

No action

FRI 30 DEC 1936

See L.R.
J.E. 869



© 2020

Lloyd's Register
Foundation