

REPORT ON BOILERS.

pt. 5b.

31115 5480 Engine

- 0. JAN. 1962

No. Rka. 1211

Received at London Office

Date of writing Report 3.5. 1961 When handed in at Local Office 19 Port of Rijeka

No. in Survey held at Zagreb Date, First Survey 20.12.60. Last Survey 30.3. 1961

Reg. Book. (Number of Visits 9) Tons Gross Net

on the

Built at Rijeka By whom built Brodogradiliste 3. Maj Yard No. 480 When built

Engines made at By whom made Engine No. When made

Boilers made at Zagreb By whom made Tvornica Parnih Kotlova Boiler No. 2720 When made 1961

Owners Port belonging to

VERTICAL BOILER.

Made at Zagreb By whom made Tvornica Parnih Kotlova Boiler No. 2720 When made 1961 Where fixed

Manufacturers of Steel Dortmund Horder Huttenunion

Total Heating Surface of each Boiler 85 sq.m. Is forced draught fitted Coal or Oil fired oil fired

No. and Description of Boilers one vertical water tube Working Pressure 7 kg/sq.cm

Tested by hydraulic pressure to 14 kg/sq.cm Date of test 30th March, 1961 No. of Certificate Rka. 67

Area of fire grate in each Boiler No. and description of safety valves to each boiler 2x80 mm bore High lift type

Area of each set of valves per boiler { per Rule 4287 sq.mm Pressure to which they are adjusted 7 kg/sq.cm Are they fitted with easing gear

as fitted 10048 sq.mm

State whether steam from main boilers can enter the donkey boiler Smallest distance between boiler or uptake and bunkers

or woodwork Is oil fuel carried in the double bottom under boiler Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated Largest internal dia. of boiler 1860 mm Height 5400 mm

Shell plates: Material SM.Steel Tensile strength 47,2-49,3 kg/sq.mm Thickness 11 mm

Are the shell plates welded or flanged no If fusion welded, state name of welding firm

Have all the requirements of the Rules for Class I vessels been complied with Description of riveting: circ. seams { end SR.IAP

long. seams DR Butt strap Dia. of rivet holes in { circ. seams 20 mm Pitch of rivets { 47 mm Thickness of butt straps { outer 11 mm

long. seams 17 mm { long. seams 70 mm inner 11 mm

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Dished Material SM.Steel Tensile strength 45,3-46kg/sq.mm Thickness 14 mm

Radius 1800 mm Description of Furnace: Plain, spherical, or dished crown one bell type Material SM.Steel

Tensile strength 45,8 - 46,3 Thickness 12-19-14-16 mm External diameter { top 544 mm Length as per Rule 627 mm

bottom 1830 mm

Pitch of support stays circumferentially and vertically Are stays fitted with nuts or riveted over 1440 mm

Diameter of stays over thread Radius of spherical or dished furnace crown

Thickness of Ogee Ring 16 mm Diameter as per Rule { D

d

Combustion Chamber: Material Tensile strength Thickness of top plate

Radius if dished 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

Tube Plates: Material { front SM.Steel Tensile strength 45,8-46,3 Thickness 19 mm Mean pitch of stay tubes in nests 380 mm

back SM.Steel

If comprising shell, dia. as per Rule { front Pitch in outer vertical rows { Dia. of tube holes FRONT { stay 45,5 & 77,0 BACK { stay 44,5 & 76

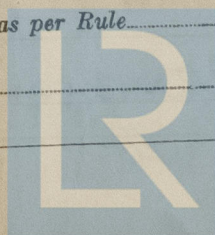
back plain 44,5

Is each alternate tube in outer vertical rows a stay tube

Girders to Combustion Chamber Tops: Material Tensile strength

Depth and thickness of girder at centre Length as per Rule

Distance apart No. and pitch of stays in each



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Crown Stays: Material _____ Tensile strength _____ Diameter { at body of stay, _____
or
over threads _____

No. of threads per inch _____ Screw Stays: Material _____ Tensile strength _____

Diameter { at turned off part, _____
or
over threads _____ No. of threads per inch _____ Are the stays drilled at the outer ends _____

Tubes: Material SM. Steel External diameter { plain 44.5 mm
stay 44.5 - 76 mm Thickness { 3 mm
6 mm

No. of threads per inch welded Pitch of tubes 68 mm

Manhole Compensation: Size of opening in shell plate 332 x 432 mm Section of compensating ring 16 x 80 mm No. of rivets and diameter

of rivet holes 52, 17 mm dia Outer row rivet pitch at ends Depth of flange if manhole flanged _____

Uptake: External diameter _____ Thickness of uptake plate _____

Cross Tubes: No. _____ External diameters { _____ Thickness of plates _____

Chapter "J"

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with _____ as far applicable

TVORNICA PARNIH KOTLOVA
The foregoing is a correct description,
ZAGREB
9.11.61
Manufacturer.

Dates of Survey while building { During progress of work in shops - - 20.12.60. to 30.3.61.
During erection on board vessel - - 12-6-61 to 3-11-61
Is the approved plan of boiler forwarded herewith _____ yes
(If not state date of approval.) 21.4.1959. (Draw. No. 5132)
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.) _____

The boiler referred herein has been constructed under Special Survey in accordance with the Rules of the

Society's approved plans and Secretary letters.

The material and workmanship are good.

In my opinion this boiler is suitable for installation in a ship classed by the Society.

Note: Manhole and sighthole compensating rings are constructed according the drawing No. 6328 and Secretary letters 12.1.60. and 26.4.60.

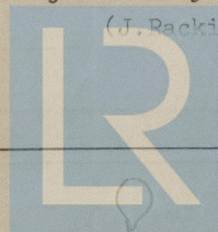
Survey Fee ... £ 12-0-0 + 25.200.- Din. When applied for 19
Travelling Expenses (if any) £ n. 17.520.- Din. When received 19

FRIDAY 23 MAR 1962

Date _____
Committee's Minute _____ Su Rka 1349

Engineer Surveyor to Lloyd's Register of Shipping.

(J. Racki)



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WITH YOUR FIRST ENTRY.