

31175 5486 Engine
- 0. JAN. 1962
No. Rka. 1211
REPORT ON BOILERS.

pt. 5b.

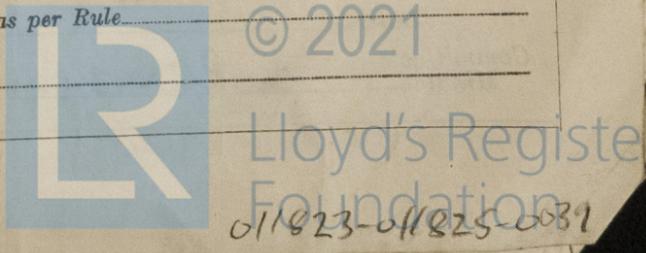
Received at London Office

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
inter
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 { 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 { top SM.Steel Tensile strength 45,8-46,3 Thickness { 19 mm Mean pitch of stay tubes in nests 380 mm
front SM.Steel
back
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 45,5 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

J. J. J. 12/9/61



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 - PANJAK
[Signature] Manufacturer.

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

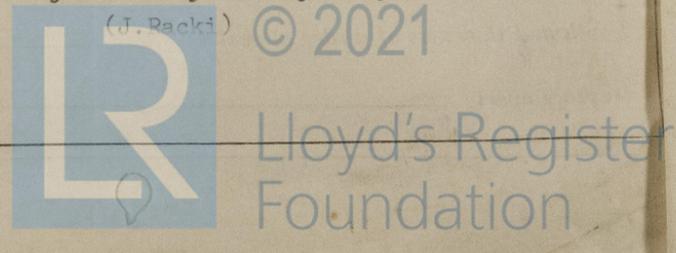
Survey Fee ... £ 12-0-0 + 25,200.- Din. When applied for 19
Travelling Expenses (if any) £ n. 17,520.- Din. When received 19

11.5.61

FRIDAY 23 MAR 1962

Date _____
Committee's Minute *Su Rka 1349*

[Signature]
Engineer Surveyor to Lloyd's Register of Shipping.
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