

Form 5a.

REPORT ON BOILERS.

Rka. 799

No. _____

Received at London Office.....

Port of Rijeka

Date of writing Report 6.4. 1959 When handed in at Local Office..... 1959

No. in Survey held at T.P.K. - Zagreb Date, First Survey 2.9.58 Last Survey 22.1. 1959

on the Lehopun (Number of Visits.....) Tons (Gross.....) (Net.....)

ult at Split By whom built Brodogradiliste "Split" Yard No. 152 When built 1959

Engines made at..... By whom made..... Engine No..... When made.....

Boilers made at Zagreb By whom made Twornica Parnih Kotlova Boiler No. 1521 When made 1959

as per Rule..... Owners..... Port belonging to.....

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Acciaierie Ferriere Lombarde Falck

Total Heating Surface of Boilers 65 sq. Metres Of Superheaters.....

Total for Register Book 65 sq. metres Is forced draught fitted yes Coal or Oil fired Oil Fired

No. and Description of Boilers One cylindrical scotch type Working Pressure 7 kg/sq. cm.

Tested by hydraulic pressure to 14 kg/sq. cm. Date of test 22.1.59 No. of Certificate Rka. No. 37 Can each boiler be worked separately.....

Area of Firegrate in each Boiler..... No. and Description of safety valves to each boiler 2 ordinary with enclosed spring type

Area of each set of valves per boiler { per Rule 3280 sq. mm 4917 mm² as fitted 5652 sq. mm. Pressure to which they are adjusted..... Are they fitted with easing gear.....

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

Smallest distance between boilers or uptakes and bunkers or woodwork..... Is oil fuel carried in the double bottom under boilers.....

Smallest distance between boilers or uptakes and bunkers or woodwork..... Is the bottom of the boiler insulated.....

Largest internal dia. of boilers 2200 mm Length 2960 mm Shell plates: Material S.M. Steel Tensile strength 44-55 kg/sq. mm

fusion welded, state name of welding Firm..... Have all the requirements of the Rules for Class I vessels.....

When complied with..... Thickness 11 mm Are the shell plates welded or flanged..... Description of riveting: circ. seams { end D.R. LAP inter.....

Long. seams D.R. but strap Diameter of rivet holes in { circ. seams 17 mm ✓ long. seams 17 mm ✓ Pitch of rivets { 59.853 ✓ 71 ✓

Percentage of strength of circ. end seams { plate 71.6 rivets 53.5 Percentage of strength of circ. intermediate seam { plate..... rivets.....

Percentage of strength of longitudinal joint { plate 76 rivets 155.8 combined 91.6

Thickness of butt straps { outer 11 mm inner 11 mm No. and Description of Furnaces in each Boiler 2 corrugated box type

Material S.M. Steel Tensile strength 44.9 - 45.2 kg/sq. mm Smallest outside diameter 670 (650/750) mm

Length of plain part { top 2143 mm 231 mm bottom 2143 mm 231 mm Thickness of plates 10 mm Description of longitudinal joint.....

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

End plates in steam space: Material..... Tensile strength..... Thickness..... Pitch of stays.....

How are stays secured.....

End plates: Material { front S.M. Steel back S.M. Steel Tensile strength { 45.8 kg/sq. mm 46.9 kg/sq. mm Thickness { 14 mm ✓ 14 mm ✓

Mean pitch of stay tubes in nests 175 x 260 mm Pitch across wide water spaces.....

Stays to combustion chamber tops: Material S.M. Steel Tensile strength 41-47 kg/sq. mm Depth and thickness of girder.....

centre 2 (130 12 mm) Length as per Rule 480 (600 mm) Distance apart 200 mm ✓ No. and pitch of stays.....

each 2 stays 200 mm pitch Combustion chamber plates; Material S.M. Steel

Tensile strength 41-47 kg/sq. mm Thickness: Sides 11 mm ✓ Back 11 mm ✓ Top 11 mm ✓ Bottom 14 mm ✓

Pitch of stays to ditto: Sides 190 mm 200 x 216 mm Back 180 mm Top 200 x 200 mm Are stays fitted with nuts or riveted over..... with nuts

Front plate at bottom: Material S.M. Steel Tensile strength 44-55 kg/sq. mm

Thickness 14 mm ✓ Lower back plate: Material S.M. Steel Tensile strength 44-55 kg/sq. mm Thickness 14 mm ✓

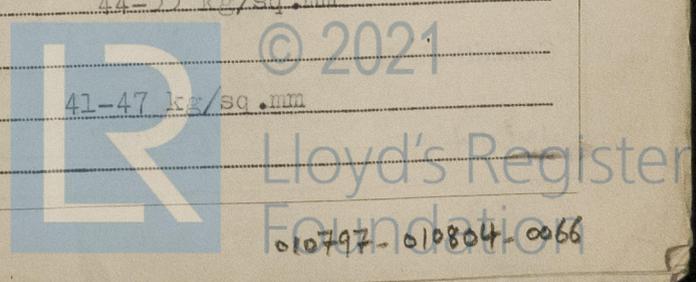
Pitch of stays at wide water space..... Are stays fitted with nuts or riveted over.....

Main stays: Material S.M. Steel Tensile strength 44-55 kg/sq. mm

Diameter { At body of stay 52 mm ✓ or 56 mm ✓ No. of threads per inch 9 ✓ Over threads.....

Fore stays: Material S.M. Steel Tensile strength 41-47 kg/sq. mm

Diameter { At turned off part 30 mm ✓ or 30 mm ✓ No. of threads per inch 9 ✓ Over threads.....



Are the stays drilled at the outer ends

Margin stays: Diameter At turned off part, Over threads

No. of threads per inch

Tubes: Material S.M. Steel

External diameter { Plain 63.5 mm ✓
Stay 63.5 mm ✓

Thickness { 3 mm ✓
9 mm ✓

No. of threads per inch 9 ✓

Pitch of tubes 87 x 87 7

Manhole compensation: Size of opening

shell plate 300 x 400 mm

Section of compensating ring 13 x 70 mm

No. of rivets and diameter of rivet holes 2 x 24 & 17 mm

Outer row rivet pitch at ends 400 x 500 7

60 mm ✓

Depth of flange if manhole flanged

70 mm ✓

Steam Dome: Material

Tensile strength

Thickness of shell

Description of longitudinal joint

Diameter of rivet holes

Pitch of rivets

Percentage of strength of joint { Plate
Rivets

Internal diameter

Thickness of crown

No. and diameter of stays

stays

Inner radius of crown

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

Manufacturers of { Tubes
Steel forgings
Steel castings

Number of elements

Material of tubes

Internal diameter and thickness of tubes

Material of headers

Tensile strength

Thickness

Can the superheater be shut off and the boiler be worked separately

Area of each safety valve

Is a safety valve fitted to every part of the superheater which can be shut off from the boiler

Pressure to which the safety valves are adjusted

Are the safety valves fitted with easing gear

tubes forgings and castings

and after assembly in place

Hydraulic test pressures

valves fitted to free the superheater from water where necessary

Chapter "J"

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with yes

The foregoing is a correct description,

Signature
IVORNIČA PARNIH
ZAGREB - ZITNJAK
Manufacturer

Dates of Survey while building { During progress of work in shops - - 2.9.58 to 22.1.59
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.)

The boiler referred herein has been constructed under Special Survey in accordance with the Rules of the Society approved plans and Secretary letters.

The material and workmanship are good.

One copy have been send to Split.

Survey Fee ... £ 21-00-00. + 12600. - Din. When applied for ... 19.....

Travelling Expenses (if any) £ Din. 11950.- When received ... 19.....

FRIDAY 23 OCT 1959

Committee's Minute

Assigned

See Rpt. 1

Enginer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation