

# REPORT ON BOILERS.

Rka. 799

No. \_\_\_\_\_

Received at London Office.....

Rijeka 2. 1959

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

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

g. Book on the Split (Number of Visits.....) Tons (Gross.....) (Net.....)

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

gines made at By whom made Engine No. When made

ilers made at Zagreb Twornica Parnih Kotlova Boiler No. 1521 When made 1959

N as per Rule Owners Port belonging to

## MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Acciaierie Ferriere Lombarde Falck

otal Heating Surface of Boilers 65 sq. Metres Of Superheaters

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

o. 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

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

rea of each set of valves per boiler { per Rule 3280 sq. mm 4917 mm<sup>2</sup> as fitted 5652 sq. mm Pressure to which they are adjusted Are they fitted with easing gear

case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Is oil fuel carried in the double bottom under boilers

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

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rgest 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

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

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

ercentage of strength of circ. end seams { plate 71.6 rivets 53.5 Percentage of strength of circ. intermediate seam { plate 76 rivets 155.8

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

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

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

ngth of plain part { top 2143 mm 231 mm Thickness of plates 10/mm Description of longitudinal joint

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

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

ow are stays secured S.M. Steel 45.8 kg/sq. mm 14 mm ✓

be plates: Material { front S.M. Steel 46.9 kg/sq. mm Thickness { 14 mm ✓ back

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

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

centre 2 (130 x 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

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

ch of stays to ditto: Sides (190) mm Back (180) mm Top 200 x 200 mm Are stays fitted with nuts or riveted over with nuts

ont plate at bottom: Material S.M. Steel Tensile strength 44-55 kg/sq. mm; Thickness 14 mm ✓

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

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

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

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

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

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



Are the stays drilled at the outer ends

Margin stays: Diameter

At turned off part  
or  
Over threads

No. of threads per inch

Tubes: Material S.M. Steel

External diameter

Plasn. 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

320

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

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

Plats.  
Rivets.

Internal diameter

Thickness of crown

No. and diameter of

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

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

Pressure to which the safety valves are adjusted

Hydraulic test pressure

tubes

forgings and castings

and after assembly in place

Are drain cocks or

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

The foregoing is a correct description,  
9.11.58  
ZAGREB - ZITNJAK

Manufacturer

Dates

During progress of

2.9.58 to 22.1.59

of Survey

work in shops - -

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

while

During erection on

building

board vessel - -

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

When applied for

Travelling Expenses (if any) £ Din. 11950.-

When received

Engineer Surveyor to Lloyd's Register of Shipping.

FRIDAY 23 OCT 1959

Committee's Minute

Assigned

See Rpt. 1



Lloyd's Register  
Foundation