

# REPORT ON WATER TUBE BOILERS.

No. 965

Received at London Office

20.2.1960

When handed in at Local Office

19

Port of Rijeka

Writing Report

Rijeka

Date, First Survey

29.9.1959

Last Survey

20.2.

1960

Survey held at

Book

(Number of Visits 12)

Gross

Tons

Net

on the

Rijeka

By whom built

Brodogradiliste 3.Maj

Yard No. 460

When built

Boilers made at

Rijeka

By whom made

Djuro Djakovic

Engine No.

When made

Boilers made at

1674,6 sq.m.

Owners

Boiler No. 9940 & 9941

When made 1960

or Register Book

Port belonging to

Masmesmaun Hutterwerke AG, Duisburg

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel

8.5.58

No. and Description or Type

of Approval of plan

W.T. Babcock & Wilcox

Working Pressure

51 kg/sq.cm

Tested by Hydraulic Pressure to

80 kg/sq.cm

Date of Test 21.12.1959

of Certificate

Rka. No. 57 & 58

Can each boiler be worked separately

yes

Total Heating Surface of Boilers

2x684 sq.m.

Superheaters

Economisers

2x6,3 sq.m.

Ind type of burners (oil) in each boiler

2x5 Babcock Jawa oil Burners

boiler

2 full lift type of 50 mm bore

Area of each set of valves per boiler

per rule

2001 sq.mm

as fitted

3924 sq.mm

Pressure to which they

adjusted

Are they fitted with easing gear

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

donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork

Height of boiler

th and length

Steam Drums:—Number in each boiler

One

Inside diameter

610 x 576 mm

Thickness of plates

40/108 mm

Range of tensile strength

47,5-54,5 kg/sq.mm

Are drum shell plates welded

welded

If fusion welded, state name of welding firm

As above

Have all the requirements of the Rules

Class I vessels been complied with

See Df.C.No. 58/2440

Description of riveting:—Circ. seams

long. seams

meter of rivet holes in long. seams

Pitch of rivets

Thickness of straps

see attached

Percentage strength of

joint:—Plate

Rivet

Diameter of tube holes in drum

sheet

Pitch of tube holes

sheet

Percentage strength of shell in way of tubes

see attached

Steam Drum Heads or Ends:—Range of tensile strength

45,9-46,7 kg/sq.mm

Thickness of plates

46 mm

Radius or how stayed

1040 mm

Size of manhole or handhole

300 x 400 mm

Water Drums:—Number

one

Inside diameter

420 x 397 mm

Thickness of plates

30/76 mm

Range of tensile strength

46,0-50,5 kg/sq.mm

Are drum shell plates

welded

If fusion welded, state name of welding firm

As above

Have all the requirements of the Rules

Class I vessels been complied with

see Df.C.No. 58/2440

Description of riveting:—Circ. seams

long. seams

meter of rivet holes in long. seams

Pitch of rivets

Thickness of straps

see attached

Percentage strength of

joint:—Plate

Rivet

Diameter of tube holes in drum

sheet

Pitch of tube holes

sheet

Percentage strength of drum shell in way of tubes

see attached

Water Drum Heads or Ends:—Range of tensile strength

46,0-50,3 kg/sq.mm

Thickness of plates

35 mm

Radius or how stayed

720 mm

Size of manhole or handhole

300 x 400 mm

Tested by hydraulic pressure to

102 kg/sq.cm.

Boilers or Sections:—Number

3 square

Material

SM steel

Thickness

32 mm

Steam Dome or Collector:—Description of

es:—Diameter

51

Thickness

4.5 mm

Number

65

Range of tensile

to shell

Inside diameter

Thickness of shell plates

Range of tensile

length

Description of longitudinal joint

If fusion welded, state name of welding

Have all the requirements for the Rules for Class I vessels been complied with

Diameter of rivet holes

Thickness of straps

Percentage strength of long. joint

plate

rivet

own or End Plates:—Range of tensile strength

Thickness

Radius or how stayed

PERHEATER, Drums or Headers:—Number in each boiler

2 drums

Inside diameter

195 mm

Thickness

36 mm

Material

Alloy steel

Range of tensile strength

48;7-50,0 kg/sq.mm

Are drum shell plates welded

seamless

If fusion welded, state name of welding firm

as above

Have all the requirements of the Rules

Class I vessels been complied with

Description of riveting:—Circ. seams

long. seams

meter of rivet holes in long. seams

Pitch of rivets

Thickness of straps

38x44,45 mm

Percentage strength of

joint:—Plate

Rivet

Diameter of tube holes in drum

32,75 mm

Pitch of tube holes

Percentage strength of

in shell in way of tubes

27,67

Drum Heads or Ends:—

Thickness

Range of tensile strength

195x32x325 mm

Radius or how stayed

86/102/115

Size of manhole or handhole

kg/sq.cm

Number, diameter, and thickness of tubes

23.1.60

Date of test

Is a safety valve fitted to each section of the superheater which

be shut off from the boiler

No. and description of safety valves

one full lift type of 50 mm bore

Area of each set

valves

1962 sq/mm

Pressure to which they are adjusted

Is easing gear fitted

re Gear. Has the spare gear required by the Rules been supplied

"DURO ĐAKOVIC"

The foregoing is a correct description,

Manufacturer.

During progress of

work in shops - -

29.9.59 to 20.2.60

Is the approved plan of boiler forwarded herewith

During erection on

board vessel - -

Total No. of visits

Is 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 boilers referred herein have been

instructed under Special Survey in accordance with the Rules of the Society approved plans and

cretary letters.

material and workmanship are good.

Survey Fee ... £ 151-4-0 + 84672.-Din.

When applied for

19

Travelling Expenses (if any) £ 7900.-Din.

When received

19

Date

FRIDAY 14 APR 1961

mittee's

minute

See Rpt 46

Engineer Surveyor to Lloyd's Register of Shipping

Lloyd's Register

Foundation

011619-011627-0025 1/2



Rpt. 5c

Port of Rijeka

Continuation of Report No. 5c

dated

20.2.60

on the

Report on Water Tube Boilers

Steam Drums: 32,15 - 38,5 - 51,5 mm Dia; 44,45 x 45,365 - 55,5 x 71,628 - 111,13 x 56,11  
mm Pitch: 45,5 - 73,5 - 30,6 Percentage

Water Drums: 32,15 - 38,5 - 51,5 mm Dia; 44,45 x 49,523 - 55,5 x 72,22 - 111,13 x 61,91  
mm Pitch: 27,67 - 30,6 - 52,7 Percentage.



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