

REPORT ON BOILERS.

No.

13994

Received at London Office

31 AUG 1954

Rules

Date of writing Report

23rd June 1954

When handed in at Local Office

26/7/54

Port of

TRIESTE

Rules

No. in

g. Book.

Survey held at

Trieste - Montafalcone

Date, First Survey

See Rpt.

Last Survey

H 10

19

(Number of Visits...)

Gross 12.460

Net 7.487

tanks

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engines made at

Boilers made at

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MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel... LFA - Terni & Oesterreichisch-Eippine Montangesellschaft Letter for Record... ☒

Total Heating Surface of Boilers... 250 sq. ft. each ☒ Is forced draught fitted... ☒ Coal or Oil fired... ☒ Gas ☒

No. and Description of Boilers... two - cylindrical multitubular Working Pressure 12 kg/cm² ☒

Tested by hydraulic pressure to 21.5 kg/cm² ☒ Date of test 30/9/54 ☒ No. of Certificate 404 ☒ Can each boiler be worked separately... ☒

Area of Firegrate in each Boiler... ☒ No. and Description of safety valves to each boiler... two - spring loaded ☒

Area of each set of valves per boiler... ☒ Pressure to which they are adjusted 12 kg/cm² ☒ 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... ample ☒ Is oil fuel carried in the double bottom under boilers... ☒

Smallest distance between shell of boiler and tank top plating... ample ☒ Is the bottom of the boiler insulated... ☒

Largest internal dia. of boilers... 4380 mm ☒ Length 3736 mm ☒ Shell plates: Material S.M.S. ☒ Tensile strength 44 kg/mm² min. ☒

Thickness 31 mm ☒ Are the shell plates welded or flanged... riveted ☒ Description of riveting: circ. seams ☒ end... D.R. ☒ inter... T.R. ☒

long. seams... T.R.D.B.S. ☒ Diameter of rivet holes in circ. seams 35 mm ☒ Pitch of rivets 224 mm ☒

Percentage of strength of circ. end seams... plate 66.7 ☒ rivets 48.2 ☒ Percentage of strength of circ. intermediate seam... plate 75 ☒ rivets 60 ☒

Percentage of strength of longitudinal joint... plate 85.2 ☒ rivets 94.4 ☒ combined 88.7 ☒ Working pressure of shell by Rules 13.1 kg/cm² at joints ☒

Thickness of butt straps... outer 24 mm ☒ inner 27 mm ☒ No. and Description of Furnaces in each Boiler ☒ 3 corrugated (Morrison type) ☒

Material S.M.S. ☒ Tensile strength 41 kg/mm² min. ☒ Smallest outside diameter 1079 mm ☒

Length of plain part... top ☒ bottom ☒ Thickness of plates... crown 14.5 mm ☒ bottom 14.5 mm ☒ Description of longitudinal joint... welded ☒

Dimensions of stiffening rings on furnace or c.c. bottom... ☒ Working pressure of furnace by Rules ☒

End plates in steam space: Material S.M.S. ☒ Tensile strength 41 kg/mm² min. ☒ Thickness 29 mm ☒ Pitch of stays 440 x 420 mm ☒

How are stays secured... double nuts ☒ Working pressure by Rules ☒

Tube plates: Material front S.M.S. ☒ back S.M.S. ☒ Tensile strength 41 kg/mm² min. ☒ Thickness 23 mm ☒

Mean pitch of stay tubes in nests 206 x 206 mm ☒ Pitch across wide water spaces 376 mm ☒ Working pressure front ☒ back ☒

Girders to combustion chamber tops: Material S.M.S. ☒ Tensile strength 44 kg/mm² min. ☒ Depth and thickness of girder at centre 250 mm ☒ 30 mm ☒ Length as per Rule 910 mm ☒ Distance apart 200 mm ☒ No. and pitch of stays in each welded ☒ Working pressure by Rules ☒ Combustion chamber plates: Material S.M.S. ☒

Tensile strength 41 kg/mm² min. ☒ Thickness: Sides 19 mm ☒ Back 19 mm ☒ Top 19 mm ☒ Bottom 22 mm ☒

Pitch of stays to ditto: Sides 220 x 200 mm ☒ Back 213 x 193.4 mm ☒ Top none ☒ Are stays fitted with nuts or riveted over... part riveted ☒ part riveted ☒

Working pressure by Rules ☒ Front plate at bottom: Material S.M.S. ☒ Tensile strength 41 kg/mm² min. ☒

Thickness 23 mm ☒ Lower back plate: Material S.M.S. ☒ Tensile strength 41 kg/mm² min. ☒ Thickness 25 mm ☒

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

Working pressure ☒ Main stays: Material S.M.S. ☒ Tensile strength 44 kg/mm² min. ☒

Diameter At body of stay 76 mm ☒ No. of threads per inch 6 ☒ Area supported by each stay 440 x 420 mm ☒

Working pressure by Rules ☒ Screw stays: Material S.M.S. ☒ Tensile strength 41 kg/mm² min. ☒

Diameter At turned off part 38 mm ☒ No. of threads per inch 9 ☒ Area supported by each stay 213 x 193.4 mm ☒

Working pressure by Rules. ✓ Are the stays drilled at the outer ends. NO Margin stays: Diameter { At turned off part, ✓ 48 in. or Over threads. ✓
No. of threads per inch. 9 ✓ Area supported by each stay. 213 x 193 in. Working pressure by Rules. ✓
Tubes: Material. S.M.S. External diameter { Plain. 76 in. ✓ Thickness. 10.25 & 9.25 in. ✓ No. of threads per inch. 9 ✓
Pitch of tubes. 103 x 103 in. ✓ Working pressure by Rules. ✓ Manhole compensation: Size of opening. 38 & 23 in. ✓
shell plate. 520 x 420 in. Section of compensating ring. 300 x 51 in. ✓ No. of rivets and diameter of rivet holes. 38 & 23 in. ✓
Outer row rivet pitch at ends. 224 in. ✓ Depth of flange if manhole flanged. ✓ 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. ✓ Working pressure by Rules. ✓ Thickness of crown. ✓ No. and diameter of stays. ✓
Inner radius of crown. ✓ Working pressure by Rules. ✓
How connected to shell. ✓ Size of doubling plate under dome. ✓ Diameter of rivet holes and of rivets in outer row in dome connection to shell. ✓

Type of Superheater. none 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 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 casing gear. ✓ Working pressure as Rules. ✓ Pressure to which the safety valves are adjusted. ✓ Hydraulic test pressure. ✓
tubes. ✓ forgings and castings. ✓ and after assembly in place. ✓ Are drain cock valves fitted to free the superheater from water where necessary. ✓

Have all the requirements of Sections 4 to 22 inclusive for boilers been complied with. ✓

The foregoing is a correct description,

CANTIERI RIUNITI DELL'ADRIATICO
CANTIERE NAVALE MONFALCONE Manufacture

Dates of Survey while building { During progress of work in shops - - } see Rpt. 46 Are the approved plans of boiler and superheater forwarded herewith. ✓
{ During erection on board vessel - - - } (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. "FIAMMA" - Rpt. No. 13830 Tri.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These boilers have been constructed under special survey from tested materials and in accordance with Society's Rules and approved plan.

The materials and workmanship are good.

The boilers were efficiently installed on board the vessel, a satisfactory accumulation test made under steam, found tight and the safety valves adjusted for a working pressure of 12 kg/cm².

These boilers, in my opinion, are eligible to be classed with record of:

2 DB - 171 lb.

DUAL CLASS
L.R. & R.I.

Live 194.400. - less 15% for dual class

Survey Fee ... £ 165.240.4
Travelling Expenses (if any) £ 4.130.4
Ror Tax 3% 5.205.

When applied for, 26.7.1954

When received, 19.8.1954

Debari

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRIDAY 1 OCT 1954

Assigned

See Rpt. 4.



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Foundation