

REPORT ON BOILERS.

No. 332034

Received at London Office 23 FEB 1951

of writing Report... 2.12.1950 When handed in at Local Office... 19... Port of Rotterdam

in Survey held at Rotterdam Date, First Survey 31-1-50 Last Survey 25-9-1950

Book. (Number of Visits... 12...)

333 on the M.V. "La Plata" Gross 11633.21 Tons Net 6533.05

er Built at Rotterdam By whom built P. Smit & Z. N.V. Yard No. 597 When built 1950

ines made at Rotterdam By whom made P. Smit & Z. N.V. Engine No. 671/52 When made 1950

rs made at Rotterdam By whom made P. Smit & Z. N.V. Boiler No. 736/37 When made 1950

inal Horse Power... Owners Yacimientos Petroliferos Fiscales Port belonging to Buenos Aires

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Hautenwerk Huchingen A.G. of Duisburg - Wanneim (Letter for Record 5)

al Heating Surface of Boilers 206.5 m² each Is forced draught fitted Yes Coal or Oil fired Oil fired

and Description of Boilers Two multitubular donkey boilers. 3 c/f each Working Pressure 12.65 kg/cm²

ed by hydraulic pressure to 23 kg/cm² Date of test 17-5-50 No. of Certificate 1094 Can each boiler be worked separately Yes

of Firegrate in each Boiler Oil fired No. and Description of safety valves to each boiler 2, spring loaded, high lifting type

of each set of valves per boiler per Rule Pressure to which they are adjusted 12.65 kg Are they fitted with easing gear Yes

se of donkey boilers, state whether steam from main boilers can enter the donkey boiler no main boilers

lest distance between boilers or uptakes and bunkers or woodwork no woodwork Is oil fuel carried in the double bottom under boilers no

lest distance between shell of boiler and tank top plating fitted on tank deck Is the bottom of the boiler insulated Yes

est internal dia. of boilers 4200 mm Length 3400 mm Shell plates: Material S.M. steel Tensile strength 45/51 kg/mm²

ness 29 mm Are the shell plates welded or flanged no Description of riveting: circ. seams end double riveted

seams 3 x riv. double butt strap Diameter of rivet holes in circ. seams 32 mm Pitch of rivets 213 mm

centage of strength of circ. end seams plate App'd Percentage of strength of circ. intermediate seam plate App'd

centage of strength of longitudinal joint plate App'd Working pressure of shell by Rules App'd

ness of butt straps outer 23 mm No. and Description of Furnaces in each Boiler 3 corrugated furnaces in each

ial S.M. steel Tensile strength 41/47 kg/mm² Smallest outside diameter 1030 mm

h of plain part top 200 mm Thickness of plates crown 15 mm Description of longitudinal joint welded

bottom 200 mm bottom 15 mm

visions of stiffening rings on furnace or c.c. bottom not fitted Working pressure of furnace by Rules App'd

plates in steam space: Material S.M. steel Tensile strength 41/47 kg/mm² Thickness 22.5 mm Pitch of stays 400 x 450 mm

re stays secured screwed through end plate with nuts in outside Working pressure by Rules App'd

plates: Material front S.M. steel Tensile strength 41/47 kg/mm² Thickness 22 mm

back S.M. steel 41/47 kg/mm² 22 mm

pitch of stay tubes in nests 204 mm Pitch across wide water spaces 360 mm Working pressure front App'd

back App'd

rs to combustion chamber tops: Material S.M. steel Tensile strength 45/51 kg/mm² Depth and thickness of girder

tre 290 x 20 mm Length as per Rule 790 mm Distance apart 200 mm No. and pitch of stays

h welded girders Working pressure by Rules App'd Combustion chamber plates: Material S.M. steel

strength 41/47 kg/mm² Thickness: Sides 17 mm Back 19 mm Top 17 mm Bottom 20 mm

of stays to ditto: Sides 175 x 200 mm Back 210 x 210 mm Top — Are stays fitted with nuts or riveted over Riveted over

ing pressure by Rules App'd Front plate at bottom: Material S.M. steel Tensile strength 41/47 kg/mm²

ess 22 mm Lower back plate: Material S.M. steel Tensile strength 41/47 kg/mm² Thickness 22 mm

of stays at wide water space 380 mm Are stays fitted with nuts or riveted over fitted with nuts

ing pressure App'd Main stays: Material S.M. steel Tensile strength 45/51 kg/mm²

er At body of stay 75 mm 6 off 57 mm No. of threads per inch 6 Area supported by each stay 400 x 450 mm

Over threads 22.5 mm

g pressure by Rules App'd Screw stays: Material S.M. steel Tensile strength 41/47 kg/mm²

er At turned off part 13/8" - 1 1/2" - 1 3/4" No. of threads per inch 11 Area supported by each stay 175 x 200 & 210 x 210 mm

Over threads 13/8" - 1 1/2" - 1 3/4"



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Working pressure by Rules. *App'd* Are the stays drilled at the outer ends. *No* ✓ Margin stays: Diameter { At turned off part... *1 3/4* ✓
No. of threads per inch. *11* ✓ Area supported by each stay. *295 x 210 mm* Working pressure by Rules. *App'd*
Tubes: Material. *SM steel* External diameter { Plain. *76 mm* ✓ Thickness { *3.76 mm* ✓ No. of threads per inch. *11* ✓
Pitch of tubes. *102 mm* ✓ Working pressure by Rules. *App'd* Manhole compensation: Size of opening. *36 off 32 mm* ✓
shell plate. *400 x 500 mm* Section of compensating ring. *760 x 260 x 29 1/2* No. of rivets and diameter of rivet holes. *36 off 32 mm* ✓
Outer row rivet pitch at ends. *230 mm* Depth of flange if manhole flanged. *100 mm* Steam Dome: Material. *not fitted*
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 rivets.
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. *not fitted* ✓ 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
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. Working pressure.
Rules. Pressure to which the safety valves are adjusted. Hydraulic test pressure.
tubes. forgings and castings. and after assembly in place. Are drain
valves fitted to free the superheater from water where necessary.

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

The foregoing is a correct description,
MACHINEFABRIEK & SCHEEPSWERF VAN
N.V.

Dates of Survey while building { During progress of work in shops - - - *1950: 31/1 - 7/2 - 1-6-24/3 - 14-29/4 - 17-25/5* ✓ Are the approved plans of boiler and superheater forwarded herewith. (If not state date of approval.)
During erection on board vessel - - - *1950: 7/2 - 25/4* Total No. of visits. *12*

Is this Boiler a duplicate of a previous case. *yes* If so, state Vessel's name and Report No. *M.V. "Director Bhadrasinga" 32*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *The boilers have been constructed under Special Survey in accordance with the approved plans, Society's Rules and Secretary's letters and of materials tested as required. Workmanship is throughout good. They have been tested by hydraulic pressure as required and satisfactorily fitted on board the vessel. Safety valves have been adjusted under steam to the Working Pressure.*

Height of washers: Port boiler Starboard boiler
Port 360 260
18 1/2 18.5 21.0 19.0

The oil fuel installation and steam smothering system tried under working conditions.

Survey Fee ... *fl 860.-* When applied for, *27/10 1950*
Travelling Expenses (if any) *fl* When received, *1/2 1950*

S. M. Doudet
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned *Sir F.F. Melby. rpt.*

FRI. 9 MAR 1951



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