

REPORT ON BOILERS.

No. 33544

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Port of Rotterdam
 Date, First Survey 9-6-50 Last Survey 8-3-1951
 (Number of Visits 12)
 Gross 11673.73
 Net 6526.12
 Tons
 Built at Rotterdam By whom built P. Smit Jr. N.V. Yard No. 590 When built 1951
 Engines made at Rotterdam By whom made P. Smit Jr. N.V. Engine No. 673/74 When made 1951
 Boilers made at Rotterdam By whom made P. Smit Jr. N.V. Boiler No. 730/39 When made 1951
 Owners Yacimientos Petroliferos Fiscales Port belonging to Buenos Aires

MULTITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Thurtenwerf Huchingen A.G. of Duisburg-Warheim (Letter for Record S)
 Total Heating Surface of Boilers 206.5 m² each Is forced draught fitted yes Coal or Oil fired oil fired
 No. and Description of Boilers 2 multitubular donkey boilers Scotch type Working Pressure 12.65 kg/cm²
 Tested by hydraulic pressure to 23 kg/cm² Date of test 27-10-50 No. of Certificate 2-1116 Can each boiler be worked separately yes
 Area of Firegrate in each Boiler oil fired No. and Description of safety valves to each boiler 2 of high lifting type on each boiler
 Area 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
 In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no main boilers
 Smallest distance between boilers or uptakes and bunkers or woodwork no bunkers or woodwork near boilers Is oil fuel carried in the double bottom under boilers no
 Smallest distance between shell of boiler and tank top plating fitted on tween deck Is the bottom of the boiler insulated yes
 Largest internal dia. of boilers 4200 mm Length 3400 mm Shell plates: Material S.M. steel Tensile strength 45/51 kg/cm²
 Thickness 29 mm Are the shell plates welded or flanged no Description of riveting: circ. seams double riveted
 long. seams 3 x riv. double butt strap Diameter of rivet holes in circ. seams 3.2 mm Pitch of rivets 10.1 mm
long. seams 3.2 mm Percentage of strength of circ. end seams App'd Percentage of strength of circ. intermediate seam App'd
 Percentage of strength of longitudinal joint App'd Working pressure of shell by Rules App'd
 Thickness of butt straps outer 23 mm No. and Description of Furnaces in each Boiler 3 corrugated furnaces in each
inner 26 mm Tensile strength 41/47 kg/cm² Smallest outside diameter 1030 mm
 Material S.M. steel Thickness of plates crown 15 mm Description of longitudinal joint welded
 Length of plain part top 200 mm bottom 200 mm Working pressure of furnace by Rules App'd
 Dimensions of stiffening rings on furnace or c.c. bottom not fitted End plates in steam space: Material S.M. steel Tensile strength 41/47 kg/cm² Thickness 28.5 mm Pitch of stays 400 x 450 mm
 How are stays secured Screwed in endplate with in, outside nuts Working pressure by Rules App'd
 Tube plates: Material front S.M. steel Tensile strength 41/47 kg/cm² Thickness 22 mm
back S.M. steel Mean pitch of stay tubes in nests 204 mm Pitch across wide water spaces 360 mm Working pressure front App'd
back App'd Girders to combustion chamber tops: Material S.M. steel Tensile strength 45/51 kg/cm² Depth and thickness of girder
 at centre 290 x 20 mm Length as per Rule 790 mm Distance apart 200 mm No. and pitch of stays
 in each welded girders Working pressure by Rules App'd Combustion chamber plates: Material S.M. steel
 Tensile strength 41/47 kg/cm² Thickness: Sides 17 mm Back 19 mm Top 17 mm Bottom 20 mm
 Pitch of stays to ditto: Sides 175 x 200 Back 210 x 210 Top - Are stays fitted with nuts or riveted over Riveted over
 Working pressure by Rules App'd Front plate at bottom: Material S.M. steel Tensile strength 41/47 kg/cm²
 Thickness 22 mm Lower back plate: Material S.M. steel Tensile strength 41/47 kg/cm² Thickness 22 mm
 Pitch of stays at wide water space 380 mm Are stays fitted with nuts or riveted over with nuts
 Working pressure App'd Main stays: Material S.M. steel Tensile strength 45/51 kg/cm²
 Diameter At body of stay 75 mm No. of threads per inch 6 Area supported by each stay 400 x 450 mm
Over threads 82.5 mm Working pressure by Rules App'd Screw stays: Material S.M. steel Tensile strength 41/47 kg/cm²
 Diameter At turned off part 1 3/8" - 1 1/2" - 1 3/4" No. of threads per inch 11 Area supported by each stay 175 x 200 - 210 x 210 mm

Working pressure by Rules *App'd* Are the stays drilled at the outer ends *No* ✓ Margin stays: Diameter { At turned off part *3/4"*
 No. of threads per inch *11* ✓ Area supported by each stay *2.95 x 2.10 m.m.* Working pressure by Rules *App'd*
 Tubes: Material *S.M. steel* External diameter { Plain *7.6 m.m.* ✓ Thickness { *3.76 m.m.* ✓ No. of threads per inch *9*
 Stay *7.6 m.m.* ✓ Pitch of tubes *102 m.m. x 102* Working pressure by Rules *App'd* Manhole compensation: Size of opening *3.6* ✓
 shell plate *4.00 x 5.00 m.m.* Section of compensating ring *760 x 860 x 29 m.m.* No. of rivets and diameter of rivet holes *3.6* ✓
 Outer row rivet pitch at ends *230 m.m.* Depth of flange if manhole flanged *100 m.m.* ✓ 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
 stays *—* Inner radius of crown *—* Working pressure by Rules *—*
 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 *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 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 easing 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 cocks
 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
 F. SMIT JR. N.V. Manufacturer

Dates of Survey while building { During progress of work in shops - - } *1950: 9/6 - 4/7 - 11/7 - 24/7 - 1/8 - 9/9 - 10/10* Are the approved plans of boiler and superheater forwarded herewith *30-9-51*
 { During erection on board vessel - - } *1950: 1/12 - 1951: 26/1 - 6-8/3* (If not state date of approval.) 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. "Directa Madariga" Rpt 2250*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *The boilers have been constructed under Special Survey of tested material, in accordance with the approved plans, Society's Rules and Secretary's letters. The 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 Stand'd boiler*

P	S	P	S
<i>19.0 1/2</i>	<i>18.6 3/4</i>	<i>19.6 3/4</i>	<i>23.7 1/2</i>

Survey Fee ... *fl 860.-* } When applied for, *20/2* 19 *57*
 Travelling Expenses (if any) £ *—* : } When received, *14/3* 19 *57*

E. M. Rooden
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute *FRI. 15 JUN 1951*

Assigned *See F.E. Muechy rpt.*



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