

REPORT ON BOILERS.

No. 32583

Received at London Office. 10 AUG 1950

Writing Report.....3.7.1950 When handed in at Local Office.....19..... Port of Rotterdam

Survey held at Rotterdam Date, First Survey.....22/6/49 Last Survey.....13/4/1950

on the M.V. "Director Madariaga" (Number of Visits.....13.....) Tons { Gross.....11633.21
Net.....6533.05

Built at Rotterdam By whom built P. Smit Jr. h.v. Yard No. 596 When built 1950

made at Rotterdam By whom made P. Smit Jr. h.v. Engine No. 669-670 When made 1950

made at Rotterdam By whom made P. Smit Jr. h.v. Boiler No. 334-335 When made 1950

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

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Constructors of Steel Huttons of Huchingen & Co. of Duisburg-Wanheim (Letter for Record S)

Heating Surface of Boilers 413 m² = 26 hrs Is forced draught fitted yes Coal or Oil fired oil fired

Description of Boilers Two multitubular donkey boilers Working Pressure 12.65 kg/cm²

by hydraulic pressure to 23 kg/cm² Date of test 23-12-49 No. of Certificate 1090 Can each boiler be worked separately yes

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

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

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

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

distance between shell of boiler and tank top plating fitted for tweendeck Is the bottom of the boiler insulated yes

internal dia. of boilers 4200 mm Length 3400 mm Shell plates: Material S.M. steel Tensile strength 45-51 kg/cm²

Are the shell plates welded or flanged no Description of riveting: circ. seams double fluted

Diameter of rivet holes in circ. seams 3.2 mm Pitch of rivets 10.1 mm

Percentage of strength of circ. intermediate seam plate approved

Working pressure of shell by Rules approved

No. and Description of Furnaces in each Boiler 3 corrugated with Gungley's ends

Tensile strength 41-47 kg/cm² Smallest outside diameter 1030 mm

Thickness of plates crown 15 mm Description of longitudinal joint welded

Working pressure of furnace by Rules approved

Material S.M. steel Tensile strength 41-47 kg/cm² Thickness 28.5 mm Pitch of stays 400 x 450 mm

Working pressure by Rules approved

Material S.M. steel Tensile strength 41-47 kg/cm² Thickness 22 mm

Pitch across wide water spaces 360 mm Working pressure front approved

to combustion chamber tops: Material S.M. steel Tensile strength 45-51 kg/cm² Depth and thickness of girder

Length as per Rule 790 mm Distance apart 200 mm No. and pitch of stays

Working pressure by Rules approved Combustion chamber plates: Material S.M. steel

Thickness: Sides 17 mm Back 19 mm Top 17 mm Bottom 29 mm

Are stays fitted with nuts or riveted over margin stays with nuts

Front plate at bottom: Material S.M. steel Tensile strength 41-47 kg/cm²

Lower back plate: Material S.M. steel Tensile strength 41-47 kg/cm² Thickness 22 (+18 mm)

Main stays: Material S.M. steel Tensile strength 45-51 kg/cm²

No. of threads per inch 6 Area supported by each stay 400 x 450 mm

Screw stays: Material S.M. steel Tensile strength 41-47 kg/cm²

No. of threads per inch 11 Area supported by each stay 175 x 200 - 210 x 210

Working pressure by Rules. *Approved* Are the stays drilled at the outer ends *no* ✓ Margin stays: Diameter { At turned off part... or ✓ 3/4" Over threads... 1 3/4" }

No. of threads per inch *11* ✓ Area supported by each stay *295 x 210 mm* Working pressure by Rules *Approved*

Tubes: Material *SM steel* External diameter { Plain... *76 mm* ✓ Thickness { *3.76 mm* ✓ No. of threads per inch *9* ✓ Stay... *76 mm* ✓ } *7.94 mm* ✓

Pitch of tubes *102 mm* x *102* ✓ Working pressure by Rules *Approved* Manhole compensation: Size of *58* on the

shell plate *402 x 500 mm* Section of compensating ring *762 x 860 x 29* No. of rivets and diameter of rivet holes *3.6* ✓ *32* ✓

Outer row rivet pitch at ends *230 mm* Depth of flange if manhole flanged *100 mm* ✓ Steam Dome: Material *—* s made at

Tensile strength *—* Thickness of shell *—* Description of longitudinal joint *—* s made at

Diameter of rivet holes *—* Pitch of rivets *—* Percentage of strength of joint { Plate *—* Rivets *—* al Horse

Internal diameter *—* Working pressure by Rules *—* Thickness of crown *—* No. and d of Appro

stays *—* Inner radius of crown *—* Working pressure by Rules *—* lers *—*

How connected to shell *—* Size of doubling plate under dome *—* Diameter of rivet holes *—* Certifica

of rivets in outer row in dome connection to shell *—* Type of Superheater *not fitted* ✓ Manufacturers of { Tubes *—* Steel forgings *—* Steel castings *—* ed draught

Number of elements *—* Material of tubes *—* Internal diameter and thickness of tubes *—* id type of

Material of headers *—* Tensile strength *—* Thickness *—* Can the superheater be sh and Len

the boiler be worked separately *—* Is a safety valve fitted to every part of the superheater which can be shut off from the boiler *—* ess of ph

Area of each safety valve *—* Are the safety valves fitted with casing gear *—* Working press 188 I vess

Rules *—* Pressure to which the safety valves are adjusted *—* Hydraulic test ter of riv

tubes *—* forgings and castings *—* and after assembly in place *—* Are dra int:—P

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* ✓

EXAMINER'S SIGNATURE AND SEAL

Dates of Survey while building	During progress of work in shops - -	22/6-22/7-12/8-16/9-24/10- 2/11-5/11-17/11-25/11-24/12-23/12/49.	Are the approved plans of boiler and Superheater forwarded herewith.....30 (If not state date of approval.)
	During erection on board vessel - - -	28/2/50-13/4/50	Total No. of visits.....13

Is this Boiler a duplicate of a previous case.....No.....If so, state Vessel's name and Report No. 4

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *The builas are constructed*

GENERAL REMARKS
Special survey in accordance with the approved plans, Society's Rules and Secretary's letters and of materials tested as required. The workmanship throughout good. They have been tested by hydraulic pressure as required satisfactorily fitted on board the vessel. The safety valves have been adjusted under steam to the working pressure.

P	S	P	S

under steam to the working pressure.

Thickness of washers: Port boiler: $20.5 \frac{P}{S} \text{ mm}$. $19.1 \frac{P}{S} \text{ mm}$. Steam boiler: $19.4 \frac{P}{S} \text{ mm}$. $18.7 \frac{P}{S} \text{ mm}$.

Survey Fee *£ 868 -* :

Travelling Expenses (if any) £ : :

When applied for,.....19.....50
When received.....19.....50

S. M. Woodruff
Engineer Surveyor to Lloyd's Register of S

Committee's Minute.....FRI 17 NOV 1980.....

Assigned Sgt F. E. Welch, rpt.

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