

## REPORT ON WATER TUBE BOILERS.

No. 33544

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of writing Report 19 When handed in at Local Office 19 Port of Rotterdam  
 o. in Survey held at Rotterdam Date, First Survey 9-6-50 Last Survey 8-3-1951  
 i. Book. (Number of Visits 9) Gross 11673.73  
 pening 576 on the M.V. "San Lorenzo" Tons Net 6526.12  
 m. It at Rotterdam By whom built P. Smit Jr. N.V. Yard No. 598 When built 1951  
 jines made at Rotterdam By whom made P. Smit Jr. N.V. Engine No. 673/74 When made 1951  
 lers made at Rotterdam By whom made P. Smit Jr. N.V. Boiler No. 746/47 When made 1951  
 ninal Horse Power Owners Yacimientos Petroliferos Fiscales Port belonging to Buenos Aires

ATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Houttenwerk Haackingen A.G.  
 e of Approval of plan 23-6-49 No. and Description or Type

Boilers Two exhaust gas boilers Working Pressure 12.6 kg Tested by Hydraulic Pressure to 22.5 kg Date of Test 9-9-50  
 of Certificate 12-1108-1109 Can each boiler be worked separately Yes Total Heating Surface of Boilers 200 m<sup>2</sup> = 2140

forced draught fitted — Area of Fire Grate (coal) in each Boiler — No. and description of safety valves on

and type of burners (oil) in each boiler Non fired

h boiler 2, spring loaded, high lifting type Area of each set of valves per boiler per rule Pressure to which they

adjusted 12.6 kg Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter

donkey boiler No Smallest distance between boilers or uptakes and bunkers or woodwork No bunkers or woodwork near boilers Height of boiler 3720 mm

width and length Outside diag 14687 Steam Drums:—Number in each boiler One Inside diameter 1440 mm

ickness of plates 14 mm Range of tensile strength 44/50 kg/mm<sup>2</sup> Are drum shell plates welded

flanged — If fusion welded, state name of welding firm — Have all the requirements of the Rules

Class I vessels been complied with — Description of riveting:—Circ. seams single lap joint long. seams double riveted lap joint

iameter of rivet holes in long. seams 23 mm Pitch of rivets 70 mm Thickness of straps — Percentage strength of

g. joint:—Plate App'd Rivet App'd Diameter of tube holes in drum tube plate 38 Pitch of tube holes 60 mm

centage strength of shell in way of tubes — Steam Drum Heads or Ends:—Range of tensile strength 41/47 kg/mm<sup>2</sup>

ickness of plates 19 mm Radius or how stayed R = 1270 mm Size of manhole or handhole 300 x 400 mm Water Drums:—Number

each boiler One Inside diameter 1440 mm Thickness of plates 14 mm Range of tensile strength 44/50 kg/mm<sup>2</sup> Are drum shell plates

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centage strength of long. joint:—Plate App'd Rivet App'd Diameter of tube holes in drum tube plate 38 Pitch of tube holes 60 mm

centage strength of drum shell in way of tubes — Water Drum Heads or Ends:—Range of tensile strength 41/47 kg/mm<sup>2</sup>

ickness of plates 19 mm Radius or how stayed R = 1270 mm Size of manhole or handhole 300 x 400 mm

eaders or Sections:—Number — Material — Thickness — Tested by hydraulic pressure to —

ibes:—Diameter 38 mm Thickness plates 2.45 mm Number plain 360 stay 59 Steam Dome or Collector:—Description of

int to shell — Inside diameter — Thickness of shell plates — Range of tensile

length — Description of longitudinal joint — If fusion welded, state name of welding

m — Have all the requirements for the Rules for Class I vessels been complied with — Diameter of rivet holes —

itch of rivets — Thickness of straps — Percentage strength of long. joint — plate — rivet —

rown or End Plates:—Range of tensile strength — Thickness — Radius or how stayed —

UPERHEATER, Drums or Headers:—Number in each boiler — Inside diameter —

ickness — Material — Range of tensile strength — Are drum shell plates welded

flanged — If fusion welded, state name of welding firm — Have all the requirements of the Rules

r Class I vessels been complied with — Description of riveting:—Circ. seams — long. seams —

iameter of rivet holes in long. seams — Pitch of rivets — Thickness of straps — Percentage strength of

ng. joint:—Plate — Rivet — Diameter of tube holes in drum — Pitch of tube holes — Percentage strength of

rum shell in way of tubes — Drum Heads or Ends:—Thickness — Range of tensile strength —

adius or how stayed — Size of manhole or handhole — Number, diameter, and thickness of tubes —

ested by hydraulic pressure to — Date of test — Is a safety valve fitted to each section of the superheater which

in be shut off from the boiler — No. and description of safety valves — Area of each set

f valves — Pressure to which they are adjusted — Is easing gear fitted —

pare Gear. Has the spare gear required by the Rules been supplied Yes

The foregoing is a correct description

P. SMIT JR. N.V.

Manufacturer.

Dates During progress of work in shops - 1950: 9/6-4/7-24/7-11/8-9/9

Survey while building During erection on board vessel - 1950: 2/11-1951: 21/2-22/2-6/3

Total No. of visits 9

s this boiler a duplicate of a previous case Yes If so, state vessel's name and report No. M.V. "Director Madariaga" 32583D

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boilers have been constructed of tested

material under special survey in accordance with the approved plans, Society's Rules and

Secretary's letters. They have been tested by hydraulic pressure and satisfactorily fitted in the vessel.

The workmanship is throughout good. The safety valves have been adjusted under steam.

Survey Fee ... fl 405.- When applied for 22/2 19 57

Travelling Expenses (if any) fl - When received 14/3 19 57

FRI. 15 JUN 1951

Engineer Surveyor to Lloyd's Register of Shipping.

Date

Committee's Minute

See F.B. mchy. rpt.

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