

# REPORT ON BOILERS.

No. 12872

SEP 1960

Received at London Office

Date of writing Report MAY/AUG. 1960 When handed in at Local Office Aug. 19. 60 Port of Marseilles

No. in Survey held at Soc. des For. de la Méditerranée Date, First Survey 9.6.59 Last Survey 29.4.60 19  
Reg. Book. La Seyne-sur-Mer

42646 on the M.S. "LA ESTANCIA" (Number of Visits           ) Tons { Gross 9485,62  
Net 5956,66

Built at La Seyne-sur-Mer By whom built Soc. des For. de la Méditerranée Yard No. 1340 When built 1960  
La Seyne-sur-Mer

Engines made at Le Havre By whom made Soc. des For. de la Méditerranée Engine No. 300 When made 1960  
Le Havre

Boilers/made at Edinburgh By whom made A. Stevenson & Co. Ltd Boiler No. J. 2673 When made 1959

Owners Curies Marques Ltd Port belonging to London

## COMBINED OIL FIRED & EXHAUST GAS BOILER WITH STEAM DRUM

**VERTICAL BOILER:** See report No. 24686 dated II. II. 59 from the Port of Leith.  
**EXHAUST BOILER & STEAM DRUM:** Made at La Seyne By whom made Soc. des For. de la Méditerranée Ext. Gas Bler            1960            in engine room casing  
Boiler No.            When made            Where fixed            at level of bridge deck  
Steam Drum            1960            at side of O.F. boiler

Total Heating Surface of each Boiler (Ext. Gas Boiler) 100m<sup>2</sup> Is forced draught fitted --- Coal or Oil fired ---

No. and Description of Boilers Exhaust Gas Boiler (type Gotaverken) & Steam Drum Working Pressure 6 kg/cm<sup>2</sup> (both)

Tested by hydraulic pressure to 12 kg/cm<sup>2</sup> (both) Ext. Gas Bler 21.3.60 Date of test            Ext. Gas Bler             
Steam drum 5.2.60 No. of Certificate C. 3837

Area of fire grate in each Boiler --- No. and description of safety valves Ext. Gas Bler (one double safety valves: high lift type)  
Area of each set of valves per boiler { per Rule 2230 mm<sup>2</sup> Steam Drum see Rouen Cert. No. 1325  
as fitted 2512 mm<sup>2</sup> Pressure to which they are adjusted (all) 6 kg/cm<sup>2</sup> Are they fitted with easing gear yes

State whether steam from main boilers can enter the donkey boiler --- Smallest distance between boiler or uptake and bunkers  
or woodwork --- Is oil fuel carried in the double bottom under boiler --- Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated --- Largest internal dia. of boiler --- Height ---

Shell plates: Ext. Gas Bler Material boiler quality steel Ext. Gas Bler 41,5/41,0 Tensile strength 41,5 kg/mm<sup>2</sup> Thickness 12 mm  
Steam Drum 43,8/45,4 Tensile strength 43,8 kg/mm<sup>2</sup> Thickness 9 mm

Are the shell plates welded or flanged welded If fusion welded, state name of welding firm Soc. des For. de la Méditerranée

Have all the requirements of the Rules for Class A vessels been complied with Ext. Gas Bler class 2 A Description of riveting: circ. seams { end ---  
Steam Drum class 2 A inter ---

long. seams --- Dia. of rivet holes in { circ. seams --- Pitch of rivets { --- Thickness of butt straps { outer ---  
long. seams --- inner ---

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat --- Material --- Tensile strength --- Thickness ---

Radius --- Description of Furnace: Plain, spherical, or dished crown --- Material ---

Tensile strength --- Thickness --- External diameter { top --- Length as per Rule ---  
bottom ---

Pitch of support stays circumferentially --- and vertically --- Are stays fitted with nuts or riveted over ---

Diameter of stays over thread --- Radius of spherical or dished furnace crown ---

Thickness of Ogee Ring --- Diameter as per Rule { D ---  
d ---

Combustion Chamber: Material --- Tensile strength --- Thickness of top plate ---

Radius if dished --- Thickness of back plate --- Diameter if circular ---

Length as per Rule --- Pitch of stays ---

Are stays fitted with nuts or riveted over --- Diameter of stays over thread ---

Ext. Gas Boiler Tube Plates: Material Boiler quality steel Tensile strength { 44,5 kg/mm<sup>2</sup> Thickness { 40 mm Mean pitch of stay tubes in nests ---  
41,4/47 kg/cm<sup>2</sup> 43,6

If comprising shell, dia. as per Rule { front --- Pitch in outer vertical rows { --- Dia. of tube holes FRONT { stay --- BACK { stay ---  
back --- plain --- plain ---

Is each alternate tube in outer vertical rows a stay tube ---

Girders to Combustion Chamber Tops: Material --- Tensile strength ---

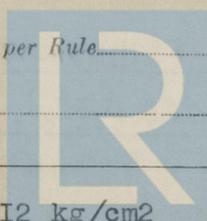
Depth and thickness of girder at centre --- Length as per Rule ---

Distance apart --- No. and pitch of stays in each ---

### MARKINGS:

Exhaust, Gas, Boiler: PF 21/3/60 - Lloyd's Register - pressure test : 12 kg/cm<sup>2</sup> WP= 6kg/cm<sup>2</sup> 2340

Steam drum : PF 5/2/60 - Lloyd's Register - pressure test : 12 kg/cm<sup>2</sup> WP= 6 kg/cm<sup>2</sup> 2340



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DISHED ENDS:

Exhaust Gas Boiler: (upper and lower)- Dished partial - Material : boiler quality steel 41/47 kg/mm2  
Tensile strength: 41,0/42,1 kg/mm2 - Thickness: 12 mm - Radius: 650 mm  
See Valenciennes Cert. No.2618 dated: 17.3.60

Steam Drum: (f. & a.)- dished partial - Material : boiler quality steel 41/47 kg/mm2  
Tensile strength: 41,0/41,0 kg/mm2 - Thickness: 10 mm - Radius: 900 mm  
See Valenciennes Cert. No.2362 dated: 8.9.59

Crown Stays: Material --- Tensile strength --- Diameter { at body of stay, ---  
or  
over threads. ---

No. of threads per inch --- Screw Stays: Material --- Tensile strength ---

Diameter { at turned off part, ---  
or  
over threads. --- No. of threads per inch --- Are the stays drilled at the outer ends ---

Ext. Gas Boiler

Tubes: Material seamless SM steel External diameter { min 38 mm  
max 38 mm Thickness { 3,5 mm  
See: Saarbrücken Cert. No.S.C.559

No. of threads per inch --- Pitch of tubes 70 x 89 mm

Manhole Compensation: Size of opening in steel plate dished ends boiler- 300x400 mm (flanged)  
Section of compensating ring --- No. of rivets and diameter  
dished ends drum - 300x400 mm 20 x 60 mm

of rivet holes --- Outer row rivet pitch at ends --- Depth of flange if manhole flanged (Ext. Gas Blr) 72

Uptake: External diameter --- Thickness of uptake plate ---

Cross Tubes: No. --- External diameters { --- Thickness of plates ---

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with ---



The foregoing is a correct description,  
L'Ingénieur Principal  
Chef de la Section "MACHINES"  
Signé: D. G. ...

Dates of Survey while building { During progress of work in shops - -  
During erection on board vessel - - - } Is the approved plan of boiler forwarded herewith (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. ---

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

The exhaust gas boiler and associated steam drum have been made under special survey in accordance with the approved plans and satisfactorily tested as per Rules. The materials and workmanship are good.

The boiler was examined under working conditions and all safety valves tested and adjusted in accordance with Rules requirements.

Survey Fee ... NF : 469,- When applied for 10.5. 1960  
Travelling Expenses (if any) NF : 15,- When received 31.8. 1960

Handwritten signatures and stamps

Engineer Surveyor to Lloyd's Register of Shipping.

Date FRIDAY - 7 OCT 1960

Committee's Minute See Rpt. 1.

