

# REPORT ON BOILERS.

No. 21

Received at London Office

Writing Report 22nd July 1926 When handed in at Local Office

Port of Paris

Survey held at Amiens Date, First Survey 1st July 1926 Last Survey 10th July 1926

on the Vertical cross tube heating Boiler for the Yard No (Number of Visits 2) Tons Gross Net

at Bilbao By whom built Cie Guokaldama Yard No. When built

made at By whom made Engine No. When made

made at Amiens By whom made Velliet & Lesecure Boiler No. When made

Port belonging to

RETAIN

## VERTICAL DONKEY BOILER.

at Amiens By whom made Messrs Velliet & Lesecure Boiler No. 2443 When made 1926 Where fixed

Manufacturers of Steel Fabrique de Fer de Mambouge, Louvroil

Heating Surface of Boiler 10 m<sup>2</sup> Is forced draught fitted No Coal or Oil fired oil Working pressure 6 Kgs

and Description of Boilers by hydraulic pressure to 12 Kgs Date of test 10/7/26 No. of Certificate 4

of Firegrate in each Boiler No. and Description of safety valves to each boiler 1 double spring type

of each set of valves per boiler per rule 38 mm dia as fitted 46 mm Pressure to which they are adjusted Are they fitted with easing gear

whether steam from main boilers can enter the donkey boiler Smallest distance between boiler or uptake and bunkers

work 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 1 m 380 Height 3 m 90 (overall)

plates: Material Steel Tensile strength 45 Kgs per sq. m Thickness 10 mm

the shell plates welded or flanged Description of riveting: circ. seams end single riveted long seams double riveted lap

of rivet holes in circ. seams 25 mm Pitch of rivets 65 mm Percentage of strength of circ. seams plate 58.5 rivets of Longitudinal joint plate 68.7 rivets combined

working pressure of shell by rules 9 K. 250 Thickness of butt straps outer inner

all Crown: Whether complete hemisphere, dished partial spherical, or flat dished partial spherical Material Steel

shell strength 45 Kgs Thickness 15 mm Radius 1375 mm Working pressure by rules 9 K. 900

Description of Furnace: Plain, spherical, or dished crown Material bricks Tensile strength

thickness External diameter top bottom Length as per rule Working pressure by rules

ch 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 Working pressure by rule

thickness of Ogee Ring Diameter as per rule Working pressure by rule

Combustion Chamber: Material Steel Tensile strength 45 K. Thickness of top plate 15 mm

radius if dished 1170 mm Working pressure by rule 7 K. 550 Thickness of back plate 11 mm Diameter if circular 1 m 290

length as per rule 1550 Pitch of stays 192 mm Are stays fitted with nuts or riveted over riveted over

diameter of stays over thread 26 mm Working pressure of back plate by rules 6 Kgs.

Tube Plates: Material front back Tensile strength Thickness Mean pitch of stay tubes in nests

comprising shell, Dia. as per rule front back Pitch in outer vertical rows Dia. of tube holes FRONT BACK stay plain

each alternate tube in outer vertical rows a stay tube Working pressure by rules front back

orders 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 Working pressure by rule

W438-0295

**Crown stays:** Material  Tensile strength  Diameter { at body of stay,  or over threads,

No. of threads per inch  Area supported by each stay  Working pressure by rules

**Screw stays:** Material  Tensile strength  Diameter { at turned off part,  or over threads,  No. of threads per inch

Area supported by each stay  Working pressure by rules  Are the stays drilled at the outer ends

**Tubes:** Material  External diameter { plain  stay  Thickness {

No. of threads per inch  Pitch of tubes  Working pressure by rules

**Manhole Compensation:** Size of opening in shell plate  $280^m \times 380^m$  Section of compensating ring  $3600 \text{ sq } ^m/m$  No. of rivets and diam of rivet holes  $20 @ 22^m/m$  Outer row rivet pitch at ends  $140^m/m$  Depth of flange if manhole flanged

**Uptake:** External diameter  $340^m/m$  Thickness of uptake plate  $13^m/m$

**Cross Tubes:** No.  $4$  External diameters {  $220^m/m$  Thickness of plates  $10^m/m$

Have all the requirements of Sections 4 to 23 inclusive for boilers been complied with \_\_\_\_\_

The foregoing is a correct description,  
*Velliet Lemaire* Manufacture

Dates of Survey { During progress of work in shops -  $1/7/26 - 10/7/26$  } Is the approved plan of boiler forwarded herewith No. 3-2 (If not state date of approval.)  
 { While building } During erection on board vessel - - - Total No. of visits \_\_\_\_\_

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)  
*This boiler is in good condition. The general workmanship is very good.*

Survey Fee  $798.-$  When applied for,  $27.7$  19  $26$   
 Travelling Expenses (if any)  $457.50$  When received, \_\_\_\_\_ 19 \_\_\_\_\_

Committee's Minute FRI. 18 MAR 1927  
 Assigned TUES. 14 JUN 1927  
FRI. 19 AUG 1927  
TUES. 13 SEP 1927  
FRI. 21 SEP 1928  
TUE. 18 DEC 1928  
TUES. 17 JAN 1928  
FRI. 9 DEC 1927

*M. Wincey*  
 Engineer Surveyor to Lloyd's Register of Shipping.

Rpt. 13.  
**REPO**  
 Date of writing Report \_\_\_\_\_  
 No. in Survey Reg. Book. \_\_\_\_\_ on the \_\_\_\_\_  
 Built at  $\text{B}$   
 Owners  $\text{Y}$   
 Electric Light Ins \_\_\_\_\_  
 System of Distrib \_\_\_\_\_  
 Pressure of supply \_\_\_\_\_  
 Direct or Alternat \_\_\_\_\_  
 If alternating current \_\_\_\_\_  
 Has the Automatic \_\_\_\_\_  
 Generators, do they \_\_\_\_\_  
 are they over compou \_\_\_\_\_  
 Where more than one \_\_\_\_\_  
 series with each shunt \_\_\_\_\_  
 Are all terminals acc \_\_\_\_\_  
 short circuited, or to \_\_\_\_\_  
 Position of Gener \_\_\_\_\_  
 is the ventilation in \_\_\_\_\_  
 if situated near \_\_\_\_\_  
 are their arcs of ro \_\_\_\_\_  
 Earthing, are the \_\_\_\_\_  
 their respective gene \_\_\_\_\_  
 Main Switch Bo \_\_\_\_\_  
 a fuse on each insul \_\_\_\_\_  
 Switchboards, are \_\_\_\_\_  
 are they protected fr \_\_\_\_\_  
 woodwork or other \_\_\_\_\_  
 are they constru \_\_\_\_\_  
 permanently high in \_\_\_\_\_  
 with mica or mic \_\_\_\_\_  
 and is the frame of \_\_\_\_\_  
 bars \_\_\_\_\_  
 Main Switchgear \_\_\_\_\_  
 circuit has \_\_\_\_\_  
 each general \_\_\_\_\_  
 Instruments on \_\_\_\_\_  
 Earth Testing, \_\_\_\_\_  
 Switches, Circu \_\_\_\_\_  
 Joint Boxes Se \_\_\_\_\_

