

## REPORT ON BOILERS.

No. 263

Received at London Office

Date of writing Report Nov. 10 1933 When handed in at Local Office Nov. 10 1933 Port of VALENCIA

No. in Survey held at VALENCIA Date, First Survey May 12, 1932 Last Survey Oct. 27 1933  
Reg. Book. 22909 on the T.S. Motor Tanker "CAMPILLO" (Number of Visits 2) Tons { Gross    Net   

Master    Built at VALENCIA By whom built Unión Naval de Levante Card No. 22 When built 1933

Engines made at BARCELONA By whom made La Maquinista Terrestre y Mar. Engine No. 1 & 2 When made 1933

Boilers made at VALENCIA By whom made Unión Naval de Levante Boiler No. 527 When made 1933

Nominal Horse Power 170 Owners C.A.M.P.S.A. Port belonging to SEVILLA

MULTITUBULAR BOILERS ~~MAIN~~, AUXILIARY, OR ~~DONKEY~~.

Manufacturers of Steel Steel Co. of Scotland & Stewart and Lloyds (Letter for Record S)

Total Heating Surface of Boilers 236.77 m<sup>2</sup> Is forced draught fitted    Coal or Oil fired Oil

No. and Description of Boilers One single ended return tube marine type Working Pressure 10.5 Kgs/cm<sup>2</sup>

Tested by hydraulic pressure to 19.25 Kgs Date of test 27-10-33 No. of Certificate 110 Can each boiler be worked separately   

Area of Firegrate in each Boiler    No. and Description of safety valves to each boiler   

Area of each set of valves per boiler { per Rule    as fitted    Pressure to which they are adjusted    Are they fitted with easing gear   

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    Is oil fuel carried in the double bottom under boilers   

Smallest distance between shell of boiler and tank top plating    Is the bottom of the boiler insulated   

Largest internal dia. of boilers 4724 m/m Length 3100 m/m Shell plates: Material Steel Tensile strength 44/50

Thickness 28 m/m Are the shell plates welded or flanged No Description of riveting: circ. seams { end D.R. Lap inter. D.R. Lap

long. seams TR DBS Diameter of rivet holes in { circ. seams 28 m/m long. seams 28 m/m Pitch of rivets { 90 m/m 207.7 m/m

Percentage of strength of circ. end seams { plate 70.0 rivets 43 Percentage of strength of circ. intermediate seam { plate 70.00 rivets 60.2

Percentage of strength of longitudinal joint { plate 86.5 rivets 81.6 combined 89.4 Working pressure of shell by Rules 10.5 Kgs/cm<sup>2</sup>

Thickness of butt straps { outer 21 m/m inner 24 m/m No. and Description of Furnaces in each Boiler 3 corrugated section

Material Steel Tensile strength 41/47 Kgs/mm<sup>2</sup> Smallest outside diameter 1030 m/m 1105

Length of plain part { top    bottom    Thickness of plates { crown 15 m/m bottom    Description of longitudinal joint Fire weld

Dimensions of stiffening rings on furnace or c.c. bottom    Working pressure of furnace by Rules 14.9 Kgs/cm<sup>2</sup>

End plates in steam space: Material Steel Tensile strength 41/47 Thickness 34 m/m Pitch of stays 540x400

How are stays secured Nuts and washes inside and outside Working pressure by Rules 16.8 Kgs/cm<sup>2</sup>

Tube plates: Material { front Steel back Steel Tensile strength { 41/47 41/47 Thickness { 24 m/m 18 m/m

Mean pitch of stay tubes in nests 90 m/m Pitch across wide water spaces 410 m/m Working pressure { front 12.2 Kgs/cm<sup>2</sup> back 11.0 Kgs/cm<sup>2</sup>

Girders to combustion chamber tops: Material Steel Tensile strength 44/50 Depth and thickness of girder   

at centre 260 m/m x (2x18m/m) Length as per Rule 882 m/m Distance apart 248 m/m No. and pitch of stays   

in each 3 a 187 m/m Working pressure by Rules 13.1 Kgs/cm<sup>2</sup> Combustion chamber plates: Material Steel

Tensile strength 41/47 Thickness: Sides 18 m/m Back 15m/m 17m/m Top 18 m/m Bottom 18 m/m

Pitch of stays to ditto: Sides 248x187 Back 190 x 220 & Top 248x187 Are stays fitted with nuts or riveted over Fitted with nuts

Working pressure by Rules 12.8 Kgs/cm<sup>2</sup> Front plate at bottom: Material Steel Tensile strength 41/47

Thickness 34 m/m Lower back plate: Material Steel Tensile strength 41/47 Thickness 34 m/m

Pitch of stays at wide water space 370 m/m Are stays fitted with nuts or riveted over Fitted with nuts

Working Pressure 25 Kgs/cm<sup>2</sup> Main stays: Material Steel Tensile strength 44/50

Diameter { At body of stay, 82 m/m No. of threads per inch 8 Area supported by each stay 400x540 sq.mm.

Working pressure by Rules 16.5 Kgs/cm<sup>2</sup> Screw stays: Material Steel Tensile strength 41/47

Diameter { At turned off part, 1 1/8" & 1 5/8" No. of threads per inch 11 Area supported by each stay 190x220 sq.mm.

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Working pressure by Rules 18.1 & 14.9 Kgs/cm<sup>2</sup> Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part or Over threads 1 3/4" ✓  
No. of threads per inch 11 ✓ Area supported by each stay 280x220 Working pressure by Rules 13.3 Kgs/cm<sup>2</sup>  
Tubes: Material Steel External diameter { Plain 63 m/m ✓ Thickness { 4 m/m ✓ No. of threads per inch 9  
Pitch of tubes 90 x 90 m/m Working pressure by Rules 12.5 Kgs/cm<sup>2</sup> Manhole compensation: Size of opening in shell plate 520x420 m/m Section of compensating ring Flanged ring 28m/m of rivets and diameter of rivet holes 44 rivets a 29m/m ✓  
Outer row rivet pitch at ends 180 m/m Depth of flange if manhole flanged 90 m/m Steam Dome: Material \_\_\_\_\_  
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 of 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 \_\_\_\_\_ Manufacturers of { Tubes \_\_\_\_\_ 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 and 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 per Rules \_\_\_\_\_ Pressure to which the safety valves are adjusted \_\_\_\_\_ Hydraulic test pressure: \_\_\_\_\_  
tubes \_\_\_\_\_, castings \_\_\_\_\_ and after assembly in place \_\_\_\_\_ Are drain cocks or 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 \_\_\_\_\_

UNIÓN NAVAL DE LEVANTE S. A.  
ASTILLEROS Y TALLERES DE VALENCIA  
The foregoing is a correct description,  
*[Signature]* Manufacturer.

Dates of Survey { During progress of work in shops - - - 1932/ May 12, July 6-14, Aug. 31, Sept. 19-29, Oct. 27, Nov. 15  
while building { During erection on board vessel - - - June 9, 20-22, July 10-15, 24, Aug. 1, 7, 14-19, 29, Sept. 8-14, 25, 26, Oct. 4-12, 19, 20-21, 24, 25, 27.  
Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) 29-4-32  
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.) This boiler has been built under survey in accordance with the Rules and approved plans.

The material and workmanship are good. The test sheets show the material of plates to be in accordance with the Society's Rules. (Please see London letter 29th April 1932 ref.E)

This boiler is intended for the motor tanker "CAMPILO" noa building at Valencia.

Survey Fee ... .. £Ptas. 1.000, -- When applied for, 10-11-32 19  
Travelling Expenses (if any) £Ptas. 559, -- When received, 5-12-32 19

*[Signature]*  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 20 JUL 1934

Assigned See Vol. 300



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