

REPORT ON BOILERS.

Received at London Office -5 JUL 1934

Date of writing Report 28 June 19 34 When handed in at Local Office 28 June 19 34 Port of VALENCIA

No. in Reg. Book 22909 Survey held at Valencia Date, First Survey 26 January 1934 Last Survey 27 June 19 34

on the Steel Twin Sc. M/V. "CAMPILO" (Number of Visits 8) Tons {Gross 3971 Net 2059

Built at Valencia By whom built Union Naval de Levante Yard No. 22 When built 1933

Engines made at Barcelona By whom made Maquinista Terrestre y Marit. Engine No. 1&2 When made 1933

Boilers made at Ferrol By whom made Soc. Española de Construcción Naval Boiler No. When made 1933

Owners C.A.M.P.S.A. Port belonging to Seville

VERTICAL DONKEY BOILER.

Made at Ferrol By whom made Soc. Española de Constr. Naval Boiler No. When made 1933 Where fixed

Manufacturers of Steel Altos Hornos de Vizcaya

Total Heating Surface of Boiler 28.5 m² (306.75 sq.ft.) Is forced draught fitted Yes ✓ Coal or Oil fired oil ✓

No. and Description of Boilers One Vertical Auxiliary Boiler Cochran Type ✓ Working pressure 10.5 Kg/cm²

Tested by hydraulic pressure to 275 lbs Date of test 21st. October 1933 No. of Certificate 127

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 direct spring loaded 2" dia. each

Area of each set of valves per boiler {per rule 2.79 in² as fitted 6.28 in² Pressure to which they are adjusted 10.5 Kg/cm² 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: Material Tensile strength Thickness

Are the shell plates welded or flanged Description of riveting: circ. seams {end. long. seams inter.}

Dia. of rivet holes in {circ. seams Pitch of rivets Percentage of strength of circ. seams {plate rivets of Longitudinal joint {plate rivets combined}}

Working pressure of shell by rules Thickness of butt straps {outer inner}

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

Tensile strength Thickness Radius Working pressure by rules

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

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

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 Working pressure by rule

Thickness of Ogee Ring Diameter as per rule {D a Working pressure by rule

Combustion Chamber: Material Tensile strength Thickness of top plate

Radius if dished Working pressure by rule 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 Working pressure of back plate by rules

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

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

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

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 Working pressure by rule



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Crown stays: Material _____ Tensile strength _____ Diameter $\left\{ \begin{array}{l} \text{at body of stay,} \\ \text{or} \\ \text{over threads.} \end{array} \right.$ _____
 No. of threads per inch _____ Area supported by each stay _____ Working pressure by rules _____

Screw stays: Material _____ Tensile strength _____ Diameter $\left\{ \begin{array}{l} \text{at turned off part,} \\ \text{or} \\ \text{over threads.} \end{array} \right.$ _____ 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 $\left\{ \begin{array}{l} \text{plain} \\ \text{stay} \end{array} \right.$ _____ Thickness _____
 No. of threads per inch _____ Pitch of tubes _____ Working pressure by rules _____

Manhole Compensation: Size of opening in shell plate _____ Section of compensating ring _____ No. of rivets and diameter _____
 of rivet holes _____ Outer row rivet pitch at ends _____ Depth of flange if manhole flanged _____

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,
 UNION NAVAL DE LEVANTE, S.A.
 ASTILLEROS Y TALLERES DE VALENCIA

 Manufacturer.

Dates of Survey $\left\{ \begin{array}{l} \text{During progress of} \\ \text{work in shops - -} \end{array} \right.$ _____
 while building $\left\{ \begin{array}{l} \text{During erection on} \\ \text{board vessel - -} \end{array} \right.$ Jan. 26. Feb. 23. March 8. April 12. _____
 June. 9. 16. 23. 27 _____
 Is the approved plan of boiler forwarded herewith (If not state date of approval.) _____
 Total No. of visits 8

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 fitted on board the vessel under survey and is satisfactory.**

The boiler has been examined under steam and the safety valves adjusted to 10.5 Kg/cm², the depth of the compression washers being :
 P. 12.5 m/m. S. 13.1 m/m.

The boiler is, in my opinion, eligible to be classed in this Society with notation of Aux.Blr. 6.34

NOTE. The safety valves originally fitted to this boiler were found unsatisfactory under steam and have been replaced by a double 2" spring loaded safety valve manufactured by Messrs. Cockburn of Cardonald.

Survey Fee £ _____ Inclusive _____ When applied for, 19 _____
 Travelling Expenses (if any) £ _____ fee charged _____ When received, 19 _____

 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 20 JUL 1934**
 Assigned See F.C. Rpt.

