

REPORT ON BOILERS.

No. 300

Received at London Office -5 JUL 1934

Date of writing Report 28 June 1934 When handed in at Local Office 28 June 1934 Port of VALENCIA

No. in Survey held at Valencia Date, First Survey 26 January 1934 Last Survey 27 June 1934
Reg. Book.22909 on the Steel Twin Sc. m/v "CAMPILLO" (Number of Visits 7) Tons {Gross 3971
Net 2059

Master Built at Valencia By whom built Unión Naval de Levante Port No. 22 When built 1933

Engines made at Barcelona By whom made Maquinista Terrestre y Maritima 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 & Messrs. Stewart & Lloyd's (Letter for Record S)

Total Heating Surface of Boilers 236.77 m² Is forced draught fitted Yes Coal or Oil fired OilNo. and Description of Boilers One single ended return tube marine type Working Pressure 10.5 Kgs/cm²

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

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2-100m/m dia. spring loaded

Area of each set of valves per boiler {per Rule 15077m/m² as fitted 15708m/m² Pressure to which they are adjusted 10.5Kgs/cm² Are they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork None Is oil fuel carried in the double bottom under boilers No - flat

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

Largest internal dia. of boilers Length Shell plates: Material Tensile strength

Thickness Are the shell plates welded or flanged Description of riveting: circ. seams {end
inter.long. seams Diameter of rivet holes in {circ. seams
long. seams Pitch of rivets {Percentage of strength of circ. end seams {plate
rivets Percentage of strength of circ. intermediate seam {plate
rivetsPercentage of strength of longitudinal joint {plate
rivets Working pressure of shell by Rules
combinedThickness of butt straps {outer
inner No. and Description of Furnaces in each Boiler

Material Tensile strength Smallest outside diameter

Length of plain part {top
bottom Thickness of plates {crown
bottom Description of longitudinal joint

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

End plates in steam space: Material Tensile strength Thickness Pitch of stays

How are stays secured Working pressure by Rules

Tube plates: Material {front
back Tensile strength { Thickness {Mean pitch of stay tubes in nests Pitch across wide water spaces Working pressure {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 Rules Combustion chamber plates: Material

Tensile strength Thickness: Sides Back Top Bottom

Pitch of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over

Working pressure by Rules Front plate at bottom: Material Tensile strength

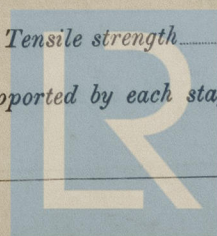
Thickness Lower back plate: Material Tensile strength Thickness

Pitch of stays at wide water space Are stays fitted with nuts or riveted over

Working Pressure Main 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

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Lloyd's Register
Foundation

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Working pressure by Rules _____ Are the stays drilled at the outer ends _____ Margin stays: Diameter { At turned off part, or Over threads _____
No. of threads per inch _____ Area supported by each stay _____ Working pressure by Rules _____
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 _____ Section of compensating ring _____ No. of rivets and diameter of rivet holes _____
Outer row rivet pitch at ends _____ Depth of flange if manhole flanged _____ 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 _____



The foregoing is a correct description, _____ Manufacturer.

Dates of Survey { During progress of work in shops - - } while building { During erection on board vessel - - }
Jan. 26 - Feb. 25 - March 8 - April 12 - June 9 - 16 - 27

Are the proposed plans of boiler and superheater forwarded herewith _____
Total No. of visits 7

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 onboard the vessel under survey and is satisfactory.

The boiler has been examined under steam and the safety valves adjusted to 10.5 Kgs/cm² the depth of the compression washers being;

P - 27 m/m S - 27 m/m

The boiler is , in my opinion, eligible to be classed in this Society with notation of Aux. Blr. 6,34.

Survey Fee ... £ Inclusive: When applied for, 10
Travelling Expenses (if any) £ fee: charged. When received, 10

[Signature]

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 20 JUL 1934

Assigned See F.b. Rpt.