

REPORT ON BOILERS.

No. 1422

Received at London Office

23 MAY 1934

Writing Report *May 15 1934* When handed in at Local Office *19 May 1934* Port of *Cadiz*
 Survey held at *Asilleros de Cadiz* Date, First Survey *21.8.33* Last Survey *22.4.34* 1934
 on the *Twin Screw Vessel "Campesino"* (Number of Visits *12*) Gross *6300* Tons
 Built at *Cadiz* By whom built *Echevarrielay Larrazabal* No. *24* When built *1933/4*
 Made at *Bilbao* By whom made *S E de C N* Engine No. *PSL 60338* When made *1933*
 Made at *Bilbao* By whom made *Cia Euskalduna* Boiler No. *125* When made *1932*
 Indicated Horse Power *446* Owners *C. A. M. P. S. A* Port belonging to *Malaga*

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel *Allios Hornos de Vizcaya* (Letter for Record *(S)*)
 Heating Surface of Boilers *1340 Sq. feet* Is forced draught fitted *Yes* Coal or Oil fired *oil fired*
 and Description of Boilers *2 Cylindrical multitubular Marine Type* Working Pressure *150 lbs* ☒ *in*
 tested by hydraulic pressure to ☒ Date of test ☒ No. of Certificate ☒ Can each boiler be worked separately *yes*
 of Firegrate in each Boiler ☒ No. and Description of safety valves to each boiler *Two direct spring loaded 3" dia* ☒
 of each set of valves per boiler { per Rule ☒ as fitted ☒ Pressure to which they are adjusted *150 lbs* Are they fitted with easing gear *yes*
 of donkey boilers, state whether steam from main boilers can enter the donkey boiler *See Cadiz letter* ☒
 least distance between boilers or uptakes and bunkers or woodwork ☒ Is oil fuel carried in the double bottom under boilers *No*
 least distance between shell of boiler and tank top plating ☒ Is the bottom of the boiler insulated *yes*
 least internal dia. of boilers *11'-6"* Length *10'-8"* Shell plates: Material *S M* Tensile strength ☒
 Are the shell plates welded or flanged *flanged* Description of riveting: circ. seams { end *Double* inter. *Triple*
 seams *Triple* 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 ☒ rivets ☒
 Percentage of strength of longitudinal joint { plate ☒ rivets ☒ combined ☒ Working pressure of shell by Rules ☒
 Thickness of butt straps { outer ☒ inner ☒ No. and Description of Furnaces in each Boiler *Two Morrison corrugated*
 Material *S M Steel* Tensile strength ☒ Smallest outside diameter ☒
 Thickness of plain part { top ☒ bottom ☒ Thickness of plates { crown ☒ bottom ☒ Description of longitudinal joint ☒
 Extensions of stiffening rings on furnace or c.c. bottom ☒ Working pressure of furnace by Rules ☒
 plates in steam space: Material ☒ Tensile strength ☒ Thickness ☒ Pitch of stays ☒
 Are stays secured *Nuts & washers inside & outside* Working pressure by Rules ☒
 plates: Material { front ☒ back ☒ Tensile strength { ☒ Thickness { ☒
 Pitch of stay tubes in nests *190 mm* Pitch across wide water spaces *360 mm* Working pressure { front ☒ back ☒
 plates to combustion chamber tops: Material ☒ Tensile strength ☒ Depth and thickness of girder ☒
 Length as per Rule ☒ Distance apart ☒ No. and pitch of stays ☒
 Working pressure by Rules ☒ Combustion chamber plates: Material ☒
 Thickness: Sides ☒ Back ☒ Top ☒ Bottom ☒
 of stays to ditto: Sides ☒ Back ☒ Top ☒ Are stays fitted with nuts or riveted over *Nuts*
 Working pressure by Rules ☒ Front plate at bottom: Material ☒ Tensile strength ☒
 Lower back plate: Material ☒ Tensile strength ☒ Thickness ☒
 of stays at wide water space *360 mm* Are stays fitted with nuts or riveted over *Nuts*
 Working Pressure ☒ Main stays: Material ☒ Tensile strength ☒
 At body of stay, ☒ No. of threads per inch ☒ Area supported by each stay ☒
 Over threads ☒
 Working pressure by Rules ☒ Screw stays: Material ☒ Tensile strength ☒
 At turned off part, ☒ No. of threads per inch ☒ Area supported by each stay ☒
 Over threads ☒

Working pressure by Rules ✓ Are the stays drilled at the outer ends *No* Margin stays: Diameter { At turned off part, ✓
Over threads ✓
No. of threads per inch ✓ Area supported by each stay ✓ Working pressure by Rules ✓
Tubes: Material ✓ External diameter { Plain ✓ Thickness { ✓ No. of threads per inch ✓
Stay ✓
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 23 inclusive for boilers been complied with *Yes*

The foregoing is a correct description,

Wm. Campbell Manufacturer.

Dates of Survey { During progress of work in shops - - } ✓ Are the approved plans of boiler and superheater forwarded herewith
while building { During erection on board vessel - - }
(If not state date of approval.)
Total No. of visits

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

These boilers have been mounted on board under special survey and in accordance with the Rules and Regulations. Workmanship good. Safety Valves adjusted to 150 lbs per sq inch. These two auxiliary boilers are eligible in my opinion to be classed with notation in Register Book 2 DB. 150 lbs.

Survey Fee ... £ : : When applied for, 192
Travelling Expenses (if any) £ : : When received, 192

Th. Black
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI 15 JUN 1984**

Assigned *See Cd 1422*



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