

REPORT ON BOILERS.

No. 1421

Received at London Office

11 MAY 1934

Date of writing Report April 28 1934 When handed in at Local Office 5 May 1934 Port of Cadiz

No. in Survey held at Malagorda Cadiz Date, First Survey April 3-1933 Last Survey April 16th 1934

No. 2902 on the Twin screw motor vessel "Campeche" (Number of Visits 12) Gross 6300 Tons

Master Built at Malagorda By whom built S E de C N Yard No. 66 When built 1933/4

Engines made at Bilbao By whom made S E de C N Engine No. 56260336 When made 1933

Boilers made at Valencia By whom made Union Naval de Levante Boiler No. 525-526 When made 1932

Nominal Horse Power 190 (2 boilers) Owners Cia' Arrendatária Monopolio Feliollos S.A. Port belonging to Tarragona

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

Manufacturers of Steel (Letter for Record S)

Total Heating Surface of Boilers 2 x 129 m² Is forced draught fitted yes Coal or Oil fired oilNo. and Description of Boilers 2 Single ended Marine type Working Pressure 10.5 Kgs/cm²

Tested by hydraulic pressure to ✓ Date of test ✓ No. of Certificate ✓ Can each boiler be worked separately yes

Area of Firegrate in each Boiler ✓ No. and Description of safety valves to each boiler 2 Spring loaded

Area 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 ✓

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 Is oil fuel carried in the double bottom under boilers no

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

Largest internal dia. of boilers 3500 mm Length 3250 mm Shell plates: Material Steel 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 ✓ rivets ✓

Percentage of strength of longitudinal joint { plate ✓ rivets ✓ Working pressure of shell by Rules ✓

Percentage of strength of longitudinal joint { combined ✓

Thickness of butt straps { outer ✓ inner ✓ No. and Description of Furnaces in each Boiler 2 corrugated Morrison section

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 Steel Tensile strength ✓ Thickness ✓ Pitch of stays ✓

How are stays secured Nuts & Washers inside and doublers outside Working pressure by Rules ✓

Tube plates: Material { front ✓ back ✓ Tensile strength ✓ Thickness ✓

Mean pitch of stay tubes in nests 190 mm Pitch across wide water spaces 360 mm 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 360 mm Are stays fitted with nuts or riveted over nuts

Working Pressure ✓ Main stays: Material Steel 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 **No** 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 **Steel** External diameter { Plain ✓
Stay ✓ Thickness { ✓ No. of threads per inch ✓

Pitch of tubes **95" x 95"** Working pressure by Rules ✓ Manhole compensation: Size of opening in q. Bo. ✓

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 **not fitted** 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,
Arthur H. Quinn Manufacturer.

Dates { During progress of work in shops - - }
of Survey while building { During erection on board vessel - - - }

Are the approved plans of boiler and superheater forwarded herewith (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 in accordance with the Rules. Workmanship good. Safety Valves adjusted to 150 lbs per sq inch. These boilers are eligible in my opinion to be classed.*

Includes in survey fee

Survey Fee ... : : When applied for, **13. 4. 1924**

Travelling Expenses (if any) £ : : When received, **13. 4. 1924**

Arthur H. Quinn
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 15 JUN 1924**

Assigned *See other Edg. J.E. Rpt*