

REPORT ON BOILERS.

No. 7023.

Received at London Office 28 FEB 1927

Date of writing Report 16th Feb. 1927 When handed in at Local Office 16th Feb. 1927 Port of Bilbao

No. in Survey held at Bilbao Date, First Survey 15th Oct. 1926 Last Survey 26th Jan 1927

on the M.V. "CABO PAJOS" (Number of Visits 4) Tons Gross 6,342 Net 3,798

built at Bilbao By whom built Cia. Industrial de Cant. y Rep. Yard No. 73 When built 1926-27

Engines made at Augsburg By whom made Masch. Augsburg. Muenberg Engine No. 26040 When made 1926

Boilers made at Amiens By whom made Vellut & Lescur Boiler No. 2443 When made 1926

Owners Compania y Cia. Port belonging to Seville

RETAIN

VERTICAL DONKEY BOILER.

Made at Amiens By whom made Vellut & Lescur Boiler No. 2443 When made 1926 Where fixed Engine room

Manufacturers of Steel ✓

Total Heating Surface of Boiler ✓ Is forced draught fitted No Coal or Oil fired Oil

No. and Description of Boilers One vertical cross-tube boiler for steam heating Working pressure 6 kgs/cm²

Tested by hydraulic pressure to ✓ Date of test ✓ No. of Certificate ✓

Area of Firegrate in each Boiler ✓ No. and Description of safety valves to each boiler Two direct spring loaded

Area of each set of valves per boiler } per rule 38.7 cm dia } Pressure to which they are adjusted 6 kgs/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

Woodwork ✓ Is oil fuel carried in the double bottom under boiler No 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 } of Longitudinal joint } 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 } 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 } 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 } Tensile strength } Thickness } Mean pitch of stay tubes in nests ✓

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

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 { 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

Area supported by each stay Working pressure by rules Are the stays drilled at the outer ends

Tubes: Material External diameter { plain or stay

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 23 inclusive for boilers been complied with

The foregoing is a correct description,

Manufactured by _____

Dates of Survey During progress of work in shops - - 1926 1927

while building During erection on board vessel - - Oct 10, Jan 4, 19, 26

Is the approved plan of boiler forwarded herewith 3-2-26 (If not state date of approval.)

Total No. of visits 1

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

This Donkey Boiler (see also Paris Report N^o. 21, forwarded herewith) has been satisfactorily fitted on board this vessel in accordance with the Rules and Regulations, the steam pipes have been tested to 12 lbs/cm², and its safety valves adjusted under steam as above. Boiler examined under steam and in good order.

Survey Fee £ : When applied for, 22/2/ 19 27

Travelling Expenses (if any) £ : When received, 22/2/ 19 27

D.B. FEES INCLUDED ON ARCHIVED REPORT.

J. H. Kendall
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 18 MAR 1927**

Assigned *See H.B. attached*

TUES. 14 JUN 1927

FRI. 19 AUG 1927

TUES. 13 SEP 1927

TUES. 17 JAN 1928

FRI. 9 DEC 1927

