

# REPORT ON BOILERS.

No. 53 1/2

Received at London Office

Writing Report *6<sup>th</sup> 5 1919* When handed in at Local Office *6-5 1919* Port of *Bellao*  
 in Survey held at *Bellao* Date, First Survey *9-12-18* Last Survey *16-4 1919*  
 Book. (Number of Visits *6*) Gross Tons *✓* Net Tons *✓*  
 on the *✓* Built at *✓* By whom built *✓* When built *✓*  
 By whom made *✓* When made *✓*  
 rs made at *Bellao* By whom made *Cia Casaldura Com. y Rep de Bayona* When made *1919*  
 ndered Horse Power *✓* Owners *Mrs. Schwanitz y Larrañaga* Port belonging to *Cádiz*

## LITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Alto Hornal de Pucayo Bellao*

er for record *5* ) Total Heating Surface of Boilers *1505 1/2* Is forced draft fitted *no* ✓ No. and Description of

rs *One single ended multitubular* Working Pressure *180 lbs* Tested by hydraulic pressure to *360* Date of test *16-4-19*

f Certificate *38* Can each boiler be worked separately *✓* Area of fire grate in each boiler *41.25 sq ft* No. and Description of

valves to each boiler *✓ 3 Spring* Area of each valve *5.9 sq ft* Pressure to which they are adjusted *✓*

hey fitted with easing gear *✓* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *✓*

lest distance between boilers or uptakes and bunkers or woodwork *✓* Mean dia. of boilers *13' 0"* Length *10' 0"*

erial of shell plates *Steel* Thickness *1 5/16* Range of tensile strength *28 to 32* Are the shell plates welded or flanged *no*

rip. of riveting: cir. seams *DOUBLY ENDS* long. seams *TELE. OVER BUTT STRAP* Diameter of rivet holes in long. seams *1 1/8"* Pitch of rivets *4 1/2"*

width of butt straps *16 1/2"* Per centages of strength of longitudinal joint rivets *91.4%* Working pressure of shell by plate *85%*

Size of manhole in shell *16" x 12"* Size of compensating ring *1 1/2" x 4 1/2"* No. and Description of Furnaces in each

*2* Material *Steel* Outside diameter *3'-9"* Length of plain part *top* Thickness of plates *bottom* *9 1/16"*

ription of longitudinal joint *lap welded* No. of strengthening rings *✓* Working pressure of furnace by the rules *196* Combustion chamber

Material *Steel* Thickness: Sides *5/8"* Back *3/8"* Top *5/8"* Bottom *1 1/16"* Pitch of stays to ditto: Sides *8 1/4" x 1 1/2"* Back *9 1/4" x 8"*

If stays are fitted with nuts or riveted heads *no* Working pressure by rules *180* Material of stays *Steel* Area at

est part *1 1/4 sq ft* Area supported by each stay *4 sq ft* Working pressure by rules *21 1/8* End plates in steam space: Material *Steel* Thickness *1 1/8"*

of stays *19 1/2 sq ft* How are stays secured *DOUBLY ENDS* Working pressure by rules *180* Material of stays *Steel* Area at smallest part *5 1/2 sq ft*

supported by each stay *3 1/2 sq ft* Working pressure by rules *18 1/2* Material of Front plates at bottom *Steel* Thickness *1 1/16"* Material of

back plate *Steel* Thickness *2 1/16"* Greatest pitch of stays *14 1/4"* Working pressure of plate by rules *184* Diameter of tubes *3 1/4"*

of tubes *4 1/2" x 4 1/2"* Material of tube plates *Steel* Thickness: Front *1 1/16"* Back *3/4"* Mean pitch of stays *9" x 9"* Pitch across wide

spaces *14 1/4"* Working pressures by rules *19 1/2* Girders to Chamber tops: Material *Steel* Depth and thickness of

at centre *8 1/2" x 1 3/8"* Length as per rule *29"* Distance apart *9 1/2"* Number and pitch of Stays in each *26 4 1/2"*

ing pressure by rules *180 lbs* Steam dome: description of joint to shell % of strength of joint

eter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

of rivets Working pressure of shell by rules Crown plates Thickness How stayed

UPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

ter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

*Herroch we enclose Re Boilers Certificate for signature* The foregoing is a correct description, *Cia Casaldura de Construcción y Reparación de Buques, Bilbao* Manufacturer.

es } During progress of } *1915 Dec. 9, 23 - 1919 Jan 13-20 Feb 26* Is the approved plan of boiler forwarded herewith *no*

vey } work in shops - - } *April 16* Total No. of visits *6*

le } During erection on } *✓*

ing } board vessel - - - } *✓*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *The boiler has been built under special way and in accordance with the approved plan dated 9-7-18. The material and workmanship are good and the boiler has been tested to 360 lbs. sq. with satisfactory results. This boiler is intended to be fitted on vessels built by Mrs. Schwanitz y Larrañaga of Cádiz*

Survey Fee ... *£ 250* : } When applied for, *6-5 1919*

Travelling Expenses (if any) *£ 8* : } When received, *6-5 1919*

Committee's Minute *TUE MAR. 2 - 1920* *FRI. JUN. 25 1920* Engineer Surveyor to Lloyd's Register of Shipping.

igned *See Cdz for rpt 871* *FRI. DEC. 10 1920* *FRI. MAY. 6 1921*

*FRI. 21 JAN 1921* *FRI. 19 MAR 1921*

*FRI. APR. 8 1921* *004003-004008-0149*

