

# REPORT ON BOILERS.

No. 4462

Copy of these reports sent to Inspector - *Surveys*

Date of writing Report *Feb 13<sup>th</sup> 1920* When handed in at Local Office *Feb 13<sup>th</sup> 1920* Port of *Genoa* Received at London Office *TUE 1*

No. in Survey held at *Rampierarena - Genoa* Date, First Survey *Feb 13<sup>th</sup>* Last Survey *Feb 13<sup>th</sup> 1920*

Reg. Book. on the *Steel Boiler on "Eridano" (Lake Steamer)* (Number of Visits *One*) Tons *Gr. 1920*

Master *✓* Built at *for s/s "Caprera"* By whom built *—* When built *—*

Engines made at *—* By whom made *—* When made *—*

Boilers made at *Genoa* By whom made *H. Odier & Co.* When made *1909*

Registered Horse Power *—* original Owners *Impresa di Navigazione sul Lago Maggiore* Port belonging to *—*

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(Letter for record *S*) Total Heating Surface of Boilers *1135* Is forced draft fitted *—* No. and Description of Boilers *One horizontal multitubular* Working Pressure *100* Tested by hydraulic pressure to *—* Date of test *—*

No. of Certificate *—* Can each boiler be worked separately *—* Area of fire grate in each boiler *34.4* No. and Description of safety valves to each boiler *—* Area of each valve *—* Pressure to which they are adjusted *—*

Are they fitted with easing gear *—* 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 *—* Mean dia. of boilers *97.9* Length *110.23*

Material of shell plates *Steel* Thickness *8.25* Range of tensile strength *26-30* Are the shell plates welded or flanged *No*

Descrip. of riveting: cir. seams *Single* long. seams *Double riveted* Diameter of rivet holes in long. seams *.86* Pitch of rivets *3.46*

Gap of plates on width of butt straps *6* Per centages of strength of longitudinal joint *86.25* Working pressure of shell by rules *98.5* Size of manhole in shell *15.4 x 11.8* Size of compensating ring *5.1 x 5.8* No. and Description of Furnaces in each boiler *2 Suspension* Material *steel* Outside diameter *35.4* Length of plain part *—* Thickness of plates *—*

Description of longitudinal joint *Welded* No. of strengthening rings *—* Working pressure of furnace by the rules *168* Combustion chamber plates: Material *steel* Thickness: Sides *7.5* Back *7.5* Top *7.5* Bottom *7.5* Pitch of stays to ditto: Sides *7.18 x 6.3* Back *7.18 x 7.08*

Top *7.46 x 6.3* If stays are fitted with nuts or riveted heads *—* Working pressure by rules *124.5* Material of stays *steel* Diameter at smallest part *7.9* Area supported by each stay *4.2* Working pressure by rules *126.25* End plates in steam space: Material *steel* Thickness *10.5*

Pitch of stays *7.4 x 6.2* How are stays secured *Double nuts and riveted washers* Working pressure by rules *143* Material of stays *steel* Diameter at smallest part *2.46*

Area supported by each stay *16.5* Working pressure by rules *153.5* Material of Front plates at bottom *steel* Thickness *10.5* Material of lower back plate *steel* Thickness *10.5* Greatest pitch of stays *11.8 x 11.8* Working pressure of plate by rules *138.5* Diameter of tubes *2.3*

Pitch of tubes *3.5* Material of tube plates *steel* Thickness: Front *10.5* Back *10.5* Mean pitch of stays *9.44* Pitch across wide water spaces *16.6 x 9.4* Working pressures by rules *168.5* Girders to Chamber tops: Material *steel* Depth and thickness of girder at centre *5.9 x 2.5* Length as per rule *19.68* Distance apart *4.48* Number and pitch of Stays in each *2-6.29*

Working pressure by rules *238* Superheater or Steam chest: how connected to boiler *None* Can the superheater be shut off and the boiler worked separately *No* Diameter *35.4* Length *33.8* Thickness of shell plates *10.5* Material *steel* Description of longitudinal joint *Single* Diam. of rivet holes *.86* Pitch of rivets *2.16* Working pressure of shell by rules *144.75* Diameter of flue *—* Material of flue plates *—* Thickness *—*

Stiffened with rings *✓* Distance between rings *—* Working pressure by rules *—* End plates: Thickness *2* How stayed *No stays*

Working pressure of end plates *100* Area of safety valves to superheater *—* Are they fitted with easing gear *—*

The foregoing is a correct description,

Manufacturer.

Dates *On shore at Rampierarena Feb 13<sup>th</sup> 1920* Is the approved plan of boiler forwarded herewith *No*

Survey *During progress of work in shops* Total No. of visits *One*

While *During erection on board vessel*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This boiler has been examined at the request of Mr. Martinovich of Lugazipiccolo, and its condition found satisfactory. Its dimensions have been compared with those of the design and found to agree. See copy of the report attached. This boiler will probably be fitted on a clamped vessel.*

Survey Fee *£12-200.00* When applied for *Feb 13<sup>th</sup> 1920*

Travelling Expenses (if any) *None* When received *191*

*Francis Nelson* © 2020  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Signed

TUE. SEP. 21 1920

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