

# REPORT ON BOILERS.

No. 4462

Received at London Office TUE 1

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

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

Reg. Book. on the steel boiler on "Cridano" (Lake Steamer) (Number of Visits One) Tons Gross Net

Master Built at By whom built When built

Engines made at By whom made When made

Boilers made at Genoa By whom made N. Odio fu. A 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 Not known

(Letter for record 5) Total Heating Surface of Boilers 1135  $\text{ft}^2$  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  $\text{ft}^2$  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

Description of riveting: cir. seams Angle long. seams 3 rivets per pitch Diameter of rivet holes in long. seams .86" Pitch of rivets 3.46"

Gap of plates or width of butt straps 6" Per centages of strength of longitudinal joint rivets 86.25" plate 75.00 Working pressure of shell by rules 98.5" Size of manhole in shell 15.4 x 11.8" Size of compensating ring 5.7 x 5.8" No. and Description of Furnaces in each boiler 2 Suspension Material steel Outside diameter 35.4" Length of plain part top Thickness of plates crown 1/16" bottom 1/16"

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" stayed by 2.5" web and 2.5" x 2.5" x 7.5" angle iron Pitch of stays to ditto: Sides 7.08 x 6.3" Back 7.08 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 44.6" Working pressure by rules 141.5" End plates in steam space: Material steel Thickness 10.5"

Pitch of stays 14.9 x 10.8" How are stays secured 220 lbwt Working pressure by rules 127.75" Material of stays steel Diameter at smallest part 2.46"

Area supported by each stay 161.5" Working pressure by rules 153.5" Material of Front plates at bottom steel Thickness 10.5" Material of cover 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 2.3/4"

Pitch of tubes 3.15" 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 2-5/8" 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 2-banded dome Can the superheater be shut off and the boiler worked separately No Diameter 35.4" Length 33.8" Thickness of shell plates 6.25" Material steel Description of longitudinal joint Angle Diam. of rivets .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 1/2" How stayed no stays

Flue top Red 39.34 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 board at Sampierdarena Feb 13<sup>th</sup> 1920 Is the approved plan of boiler forwarded herewith No

Survey During progress of work in shops

While During erection on board vessel Total No. of visits One

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been examined at the request of Mr. Martinovich of Luzzignepolo, 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 clined vessel.

Survey Fee £100.00 When applied for Feb 13<sup>th</sup> 1920

Travelling Expenses (if any) none When received, 191

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

TUE. SEP. 21 1920

Committee's Minute

signed



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