

# REPORT ON BOILERS.

No. 2342

Received at London Office

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Date of writing Report 27.1.1910 When handed in at Local Office 27.1.1910 Port of Trieste

No. in Survey held at Trieste Date, First Survey 9.9.09 Last Survey 17.1.1910

of Reg. Book. on the Donkey Boiler S.S. "Gastein" Lloyd Austriaco N° 119 Tons } Gross 2819  
 Net 2357

Master H. Chersich Built at Trieste By whom built Lloyd Austriaco When built 1910-1

Engines made at Trieste By whom made Lloyd Austriaco when made 1910-1

Boilers made at Trieste By whom made Lloyd Austriaco when made 1910-1

Registered Horse Power 390 Owners Lloyd Austriaco Port belonging to Trieste

**MULTITUBULAR BOILERS** ~~MAIN, AUXILIARY OR DONKEY.~~—Manufacturers of Steel The Steel Co of Scotland

Letter for record B Total Heating Surface of Boilers 788 Is forced draft fitted No No. and Description of Boilers One single ended Muller Working Pressure 180 lbs Tested by hydraulic pressure to 360 Date of test 9.12.09

No. of Certificate 110 Can each boiler be worked separately Yes Area of fire grate in each boiler 30 No. and Description of Safety valves to each boiler 2 Spring loaded Area of each valve 4.9 Pressure to which they are adjusted 185 lbs

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Smallest distance between boilers or uptakes and bunkers or woodwork 20" Mean dia. of boilers 10'3" Length 9'0"

Material of shell plates Steel Thickness 15/16" Range of tensile strength 28 to 32 Are the shell plates welded or flanged flanged

Description of riveting: cir. seams doub. riv long. seams triple riv Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 7/8"

Material of plates or width of butt straps 1 1/2" Per centages of strength of longitudinal joint rivets 95.4 Working pressure of shell by rules 188 lbs Size of manhole in shell 12" x 16" Size of compensating ring Mc Neil's No. and Description of Furnaces in each boiler 2 Deightons Material Steel Outside diameter 3'2 1/2" Length of plain part 3' Thickness of plates crown 15" bottom 32"

Description of longitudinal joint welded No. of strengthening rings - Working pressure of furnace by the rules 182 Combustion chamber Material Steel Thickness: Sides 7/8" Back 7/8" Top 5/8" Bottom 7/8" Pitch of stays to ditto: Sides 8" x 8" Back 8" x 8 1/2"

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If stays are fitted with nuts or riceted heads nuts Working pressure by rules 212 Material of stays Special Iron Diameter at smallest part 1 3/16" Area supported by each stay 66 Working pressure by rules 190 End plates in steam space: Material Steel Thickness 27/32"

Pitch of stays 14" x 14" How are stays secured dbl. nuts Working pressure by rules 186 Material of stays Steel Diameter at smallest part 2 1/16"

Area supported by each stay 196 Working pressure by rules 187 Material of Front plates at bottom Steel Thickness 27/32" Material of lower back plate Steel Thickness 27/32" Greatest pitch of stays 13" Working pressure of plate by rules 188 Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2" x 4 1/8" Material of tube plates Steel Thickness: Front 27/32" Back 3/4" Mean pitch of stays 9" x 8 1/2" Pitch across wide water spaces 14 1/4" Working pressures by rules 190 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 2: 6 1/2" x 3/4" Length as per rule 26" Distance apart 7" Number and pitch of Stays in each two of 8"

Working pressure by rules 191 Superheater or Steam chest: how connected to boiler - Can the superheater be shut off and the boiler worked separately - Diameter - Length - Thickness of shell plates - Material - Description of longitudinal joint - Diam. of rivets -

Pitch of rivets - Working pressure of shell by rules - Diameter of flue - Material of flue plates - Thickness -

If stiffened with rings - Distance between rings - Working pressure by rules - End plates: Thickness - How stayed -

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

The foregoing is a correct description,

*[Signature]* Manufacturer.

Dates of Survey May 18, 20, 24, 31, June 8, 19, 24, July 13, 20, 23 Is the approved plan of boiler forwarded herewith Yes

while building Sep. 9 Oct 27 Nov 18. Dec 9, 23 Jan 10. 24 Total No. of visits 16

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c. This Donkey boiler has been constructed under Special Survey in accordance with the rules and approved plan, the material and workmanship throughout are of a good description. This boiler was tested by Hydraulic pressure to 360 lbs and found tight and no sign of weakness.

Survey Fee ... £ Charged in Machinery Report When applied for, 19

Travelling Expenses (if any) 19 When received, 19

*Charles R. Hughes*  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute  
 Assigned

TUES. 1 FEB 1910

FRI. 27 MAY 1910



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