

# REPORT ON BOILERS.

No. 15638.

Port of Greenock.

Received at London Office

FRI. 6 AUG 1909

Survey held at Greenock.

Date, first Survey

18<sup>th</sup> May 1909

Last Survey

23<sup>rd</sup> July 1909

(Number of Visits 10)

on the Lloyd Austriaco S.S. N<sup>o</sup> 119.

Tons <sup>Gross</sup>  
<sub>Net</sub>

Built at Treviso

By whom built Lloyd Austriaco

When built

Made at

By whom made

When made

Made at Greenock

By whom made

Caird & Co. Ltd.

When made

1909

Horse Power

Owners

Port belonging to

**TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel S. Colvill & Sons

For record £.  Total Heating Surface of Boilers 5379 sq. ft. Is forced draft fitted Yes.  No. and Description of

2: Cylindrical horizontal single end  Working Pressure 200 lbs. Tested by hydraulic pressure to  Date of test

Certificate  Can each boiler be worked separately  Area of fire grate in each boiler  No. and Description of

doors to each boiler  Area of each valve  Pressure to which they are adjusted

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

distance between boilers or uptakes and bunkers or woodwork  Mean dia. of boilers 15' 9" Length 11' 9" (inside)

of shell plates Steel Thickness 1 3/8" Range of tensile strength 29633 lbs. Are the shell plates welded or flanged No.

of riveting: cir. seams Lap <sup>ambulation</sup> long. seams Double Butt Straps Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 9 1/2" 4 3/4"

plates or width of butt straps 21 3/8" Per centages of strength of longitudinal joint rivets 92.4 Working pressure of shell by

206 lbs Size of manhole in shell 16" x 12" Size of compensating ring 8" x 12" flanged No. and Description of Furnaces in each

2: Deighton's Material Steel Outside diameter 50 1/4" Length of plain part <sup>top</sup> 8' 6 1/2" Thickness of plates <sup>crown</sup> 5" <sub>bottom</sub> 8"

tion of longitudinal joint Weld  No. of strengthening rings None Working pressure of furnace by the rules 200 lbs Combustion chamber

Material Steel Thickness: Sides 3/32" Back 3/32" Top 3/32" Bottom 1/8" Pitch of stays to ditto: Sides 9" x 8" Back 8 1/2" x 8 1/2"

8" x 9" If stays are fitted with nuts or riveted heads Nuts  Working pressure by rules 200 lbs Material of stays Steel Diameter at

at part 1 5/8" Area supported by each stay 430" Working pressure by rules 226 lbs End plates in steam space: Material Steel Thickness 1 1/2"

of stays 22 1/2" x 22" How are stays secured Double nuts & washers Working pressure by rules 218 lbs Material of stays Steel Diameter at smallest part 3 1/2" full

supported by each stay 487" Working pressure by rules 209 lbs Material of Front plates at bottom Steel Thickness 1" Material of

back plate Steel Thickness 1" Greatest pitch of stays 14" Working pressure of plate by rules 260 lbs Diameter of tubes 2 1/2"

of tubes 3 1/2" x 3 1/4" Material of tube plates Steel Thickness: Front 1 1/2" x 1" Back 3/4" Mean pitch of stays 8 1/4" Pitch across wide

spaces 13 1/2" Working pressures by rules 226 lbs <sup>From</sup> 295 lbs <sup>Back</sup> Girders to Chamber tops: Material Steel Depth and thickness of

at centre 10" x 1 1/2" Length as per rule 31.8" Distance apart 4 1/2" Number and pitch of Stays in each 2: 9"

ing pressure by rules 246 lbs Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked

ately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

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

ened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

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

**VERTICAL DONKEY BOILER**— No.  Description Manufacturers of steel

at By whom made When made Where fixed Working pressure

by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

th Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

es of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

ness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

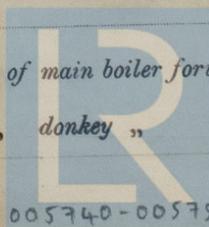
ness of do. Stayed by Diameter of uptake Thickness of uptake plates

ness of water tubes The foregoing is a correct description, Manufacturer.

During progress of work in shops -- 1909 May. 18. 20. 24. 31. June 8. 19. 24. July 13. 20. 28.

During erection on board vessel --  
Total No. of visits 10

Is the approved plan of main boiler forwarded herewith Yes



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Lloyd's Register Foundation

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

The main Boilers referred to in this report, were partly constructed by Messrs Baird & Co Ltd of Greenock. The Combustion Chamber boxes only have been riveted. All other parts have been flanged, drilled and fitted together. The work has been specially surveyed during construction and the workmanship throughout is good.

The various parts of these Boilers are being forwarded to Trieste for completion.

Request form B. 7. attached.

Certificate (if required) to be sent to

The amount of Entry fee... £	:	:	When applied for, to be collected by Trieste 19
Special ... £ 10	:	:	
Donkey Boiler Fee ... £	:	:	When received, 15/2/10
Travelling Expenses (if any) £	:	:	5/2/10

*Wm. Austin*  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute **GLASGOW** 5.AUG. 1909

TUES. 1 FEB 1910

Assigned Transmit to London *del*



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4/13/09