

REPORT ON BOILERS.

No. 15876

Received at London Office

No. of writing Report

10

When handed in at Local Office

15/9/1910 Port of Greenock.

No. in Survey held at
eg. Book.

Greenock

Date, First Survey

3rd November 1909 Last Survey10th Sept. 1910

(Number of Visits 25)

Gross

Tons

Net

on the LLOYD AUSTRIACOS N°126 VESSEL.

Master

Built at Trieste

By whom built Lloyd Austriaco

When built 1910

Engines made at

Trieste

By whom made

Lloyd Austriaco

when made 1910

Boilers made at

Greenock

By whom made

David Robt. Lim.

when made 1910

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.—Manufacturers of Steel D. Colville & Sons.

Letter for record \$(r) Total Heating Surface of Boilers 24,000 sq. ft. Is forced draft fitted Yes. No. and Description of

Boilers Eight Cylinders Multi-Engine End. Working Pressure 215 lb. Tested by hydraulic pressure to Date of test

No. of Certificate Can each boiler be worked separately Area of fire grate in each boiler 70 sq. ft. 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 Inside Mean dia. of boilers 16' 6" Length 11' 7 1/2"

Material of shell plates Steel Thickness 1 1/2" Range of tensile strength 30 to 34 tons Are the shell plates welded or flanged No.

Description of riveting: cir. seams Lap Double Riv. long. seams Double Butt Shape Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 9" 4 1/2"

Gap of plates or width of butt straps 2 1/2" Per centages of strength of longitudinal joint rivets 89 Working pressure of shell by plate 85.

No. and Description of Furnaces in each

Boiler 4 Deightons Material Steel Outside diameter 44 1/2" Length of plain part top 8' 2 3/8" Thickness of plates crown 5" bottom 8"

Description of longitudinal joint Weld No. of strengthening rings None Working pressure of furnace by the rules 227 lb. Combustion chamber

Plates: Material Steel Thickness: Sides 5/8" Back 2 1/2" Top 5/8" Bottom 1 1/2" Pitch of stays to ditto: Sides 8" x 7 5/8" Back 8 1/2" x 8"

Top 8 1/2" x 7" If stays are fitted with nuts or riveted heads Auto Working pressure by rules 213 lb. Material of stays Iron Diameter at

Smallest part 1 1/2" Area supported by each stay 65 sq. in. Working pressure by rules 215 lb. End plates in steam space: Material Steel Thickness 1 1/2"

Pitch of stays 24" x 18 1/2" How are stays secured Double Nuts Working pressure by rules 232 lb. Material of stays Steel Diameter at smallest part 3 1/2"

Area supported by each stay 44 1/2" Working pressure by rules 231 lb. Material of Front plates at bottom Steel Thickness 3/2" Material of

Lower back plate Steel Thickness 3/2" Greatest pitch of stays 13 1/4" Working pressure of plate by rules 269 lb. Diameter of tubes 2 1/2"

Pitch of tubes 5 3/4" x 3 3/4" Material of tube plates Steel Thickness: Front 1 1/2" x 3/2" Back 3/4" Mean pitch of stays 7 1/2" Pitch across wide

Water spaces 13 1/2" Working pressures by rules 212 lb. 358 lb. Girders to Chamber tops: Material Steel Depth and thickness of

Girder at centre 10" x 14" Length as per rule 32 1/2" Distance apart 8 7/8" Number and pitch of Stays in each 3:7"

Working pressure by rules 252 lb. Superheater or Steam chest: how connected to boiler None Can the superheater be shut off and the boiler worked

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

Holes 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

Request. B.10. attached.

The foregoing is a correct description,
FOR CAIRD AND COMPANY, LIMITED,

Manufacturer.

D. Macmillan

Yes.

Dates of Survey
while buildingDuring progress of work in shops - -
During erection on board vessel - - -

1909. Nov. 3. 14. 23. 24. Dec. 7. 23. 1910. Jan. 14. Apr. 29. May 11. 18. 19. 24. 24. June 7. 15. 17. July 4. 25. 29. Aug. 9. 18. Sept. 2. 3. 8. 10.

Is the approved plan of boiler forwarded herewith

Total No. of visits 25.

GENERAL REMARKS

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

The main Boilers referred to in this report were partly constructed by Messrs. David Robt. Lim. of Greenock. The combustion chambers only have been rivetted. All the remaining parts have been flanged, fitted together, drilled, and made ready for fitting. They have been specially surveyed during construction and the workmanship is good.

Survey Fee

Travelling Expenses (if any) £

When applied for.

When received.

Included in Machinery fee

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

GLASGOW 20 SEP. 1910

Committee's Minute

FRI. JAN. 26. 1912

Assigned

Transmit to London.

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Lloyd's Register
Foundation