

# REPORT ON BOILERS.

No. 2614.

MON. 16 MAR 1908

Received at London Office

Date of writing Report 14<sup>th</sup> March 1908 When handed in at Local Office 19 Port of Haarlem  
 No. in Survey held at Haarlem Date, First Survey 7<sup>th</sup> June 1907 Last Survey 7<sup>th</sup> March 1908  
 Location of Ship on the Steel Screw Steamer "Sartre" (Number of Visits 14) Tons { Gross 2456.47  
 Net 1529.82  
 Master Salain 1908 Built at Haarlem By whom built Forges & Chantiers When built 1908  
 Engines made at Haarlem By whom made Forges & Chantiers when made 1908  
 Boilers made at Haarlem By whom made Forges & Chantiers when made 1908  
 Indicated Horse Power 1350 Owners C<sup>o</sup> d'Orbigny & Faustin Capelle & C<sup>o</sup> Managers Port belonging to La Rochelle

**MULTITUBULAR BOILERS** ~~MAIN, AUXILIARY OR DONKEY.~~ Manufacturers of Steel Denain-Auzin & Schultze-Knaust

Letter for record (S) Total Heating Surface of Boilers 556 sq. feet Is forced draft fitted No. No. and Description of  
 Boilers one Cylindrical Horizontally Working Pressure 100<sup>th</sup> Tested by hydraulic pressure to 185<sup>th</sup> Date of test 22-11-07

No. of Certificate 62 Can each boiler be worked separately No. Area of fire grate in each boiler 27 sq. feet No. and Description of  
 Safety valves to each boiler two with spring Area of each valve 1.92 Pressure to which they are adjusted 100<sup>th</sup>

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 24" Mean dia. of boilers 8' 11 3/8" Length 8' 5 1/8"

Material of shell plates Steel Thickness 3/8" Range of tensile strength 27 to 29<sup>th</sup> Are the shell plates welded or flanged Flanged  
 Descrip. of riveting: cir. seams double long. seams double 3-in. gap Diameter of rivet holes in long. seams 1 3/32" Pitch of rivets 4"

Gap of plates or width of butt straps 6 3/16" Per centages of strength of longitudinal joint rivets 75 Working pressure of shell by  
 Rules 145<sup>th</sup> Size of manhole in shell 15 3/4" x 11 3/8" Size of compensating ring 33 1/2" - 1 1/32" No. and Description of Furnaces in each  
 boiler two plain Material Steel Outside diameter 32 9/16" Length of plain part 75" Thickness of plates 17/32"

Description of longitudinal joint lapped riveted No. of strengthening rings one Working pressure of furnace by the rules 145<sup>th</sup> Combustion chamber  
 plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 9/16" Pitch of stays to ditto: Sides 7 3/8" Back 7 1/8"

Top 6 3/8" If stays are fitted with nuts or riveted heads all nutted Working pressure by rules 145<sup>th</sup> Material of stays Steel Diameter at  
 smallest part 1 3/32" Area supported by each stay 60<sup>th</sup> Working pressure by rules 140<sup>th</sup> End plates in steam space: Material Steel Thickness 5/8"

Pitch of stays 13 1/8" How are stays secured double nutted Working pressure by rules 140<sup>th</sup> Material of stays Steel Diameter at smallest part 1 23/32"  
 Area supported by each stay 88<sup>th</sup> Working pressure by rules 140<sup>th</sup> Material of Front plates at bottom Steel Thickness 25/32" Material of

Lower back plate Steel Thickness 25/32" Greatest pitch of stays No. Working pressure of plate by rules No. Diameter of tubes 3 1/2"  
 Pitch of tubes 4 3/4" Material of tube plates Steel Thickness: Front 25/32" Back 25/32" Mean pitch of stays 10" Pitch across wide

water spaces 1 1/4" Working pressures by rules 130<sup>th</sup> Girders to Chamber tops: Material Steel Depth and thickness of  
 girder at centre 4 7/16" Length as per rule 19 1/4" Distance apart 10 5/8" Number and pitch of Stays in each 2 - 6 3/8"

Working pressure by rules 145<sup>th</sup> Superheater or Steam chest; how connected to boiler No. Can the superheater be shut off and the boiler worked  
 separately No. Diameter No. Length No. Thickness of shell plates No. Material No. Description of longitudinal joint No. Diam. of rivet

holes No. Pitch of rivets No. Working pressure of shell by rules No. Diameter of flue No. Material of flue plates No. Thickness No.  
 If stiffened with rings No. Distance between rings No. Working pressure by rules No. End plates: Thickness No. How stayed No.

Working pressure of end plates No. Area of safety valves to superheater No. Are they fitted with easing gear No.

The foregoing is a correct description,  
A. Briceard Manufacturer.

Dates of Survey { During progress of work in shops - 1907 - Jun 7 - July 5 - Sep. 21 - Oct. 8 - Nov. 13 - 22 Is the approved plan of boiler forwarded herewith Yes  
 while building { During erection on board vessel - 1908 - Jan. 7 - 14 - 18 - 2 Feb. 3 - 13 - 21 - March 7 Total No. of visits 14 Location Haarlem

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c. as per Surveyor's letter E. 10<sup>th</sup> November 1906.)

This Boiler has been built under Special Survey, the materials used, which is in Denain-Martin  
Steel, was tested at works, in accordance with rules requirements, & found in good & malleable quality.

The donkey boiler now built, as per approved plan in date of 10-5-06, is, in my opinion, in good and  
 safe working condition, and submitted for the consideration of the Committee.

Survey Fee ... \$ 52.50 : When applied for, 14 March 1908  
 Travelling Expenses (if any) \$ 6.25 : When received, 17-3-08

Committee's Minute  
 Assigned

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

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