

# AUXILIARY REPORT ON BOILERS.

No. 687

Port of Nantes

Received at London Office THU. JUL. 17. 1913

No. in Survey held at Nantes & St. Nazaire Date, first Survey 22-7-12 Last Survey 2-7-1913  
Reg. Book. (Number of Visits 28)

on the single screw steamer SAINT LOUIS  
Master Built at St. Nazaire By whom built Me. & Cham. de la Loire When built 1913  
Engines made at Nantes By whom made ditto when made 1913  
Boilers made at Nantes By whom made ditto when made 1913  
Registered Horse Power Owners Cie. Navale de l'Océanie Port belonging to Bordeaux

## MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel Mmes. Bane-Loire-Schneider-Tolennes de Lomvoil-Thyssen

(Letter for record (S)) Total Heating Surface of Boiler 1298 sq ft Is forced draft fitted No No. and Description of Boiler Cylindrical Scotch boiler Working Pressure 178 lb. Tested by hydraulic pressure to 320 lb. Date of test 12-4-13

No. of Certificate 33 Can boiler be worked separately Yes Area of fire grate in each boiler 45 sq ft No. and Description of safety valves to each boiler 2 Letairillet-Pinel improved Area of each valve 3.54 sq in Pressure to which they are adjusted 183 lb.

Are they fitted with easing gear Yes In case of aux. boilers, state whether steam from main boilers can enter the donkey boiler Yes vice versa

Smallest distance between boiler and bunkers 15 1/2 Mean dia. of boiler 12'-1 1/2" Length 10'-4"

Material of shell plates Steel Thickness 16.4 Range of tensile strength 28 to 31.4 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams double riv. Lap long. seams double cross-hatched Diameter of rivet holes in long. seams 19.5 Pitch of rivets 7.86

Lap of plates or width of butt straps 16 7/8 Per centages of strength of longitudinal joint Working pressure of shell by rules Size of manhole in shell 16 15/16 x 20 7/8 Size of compensating ring as per app. plan No. and Description of Furnaces in each boiler 2 Morrison cor. Material Steel Outside diameter 47 1/4 Length of plain part Thickness of plates crown 9.4 bottom 16

Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules Combustion chamber plates: Material Steel Thickness: Sides 8.8 Back 8.8 Top 8.8 Bottom 12.6 Pitch of stays to ditto: Sides 7 3/32 x 7 3/32 Back 7 5/8 x 7 3/16

Top 7 3/32 x 6 7/8 If stays are fitted with nuts or riveted heads Working pressure by rules Material of stays Steel Diameter at smallest part 1.4" Area supported by each stay Working pressure by rules End plates in steam space: Material Steel Thickness 15.1

Pitch of stays 16 1/8 x 13 25/32 How are stays secured double nuts Working pressure by rules Material of stays Steel Diameter at smallest part 2.4"

Area supported by each stay Working pressure by rules Material of Front plates at bottom Steel Thickness 15.1 Material of Lower back plate Steel Thickness 15.1 Greatest pitch of stays 13 3/8 x 7 3/16 Working pressure of plate by rules Diameter of tubes 3 11/32

Pitch of tubes 4 17/32 x 4 13/32 Material of tube plates Steel Thickness: Front 15.1 Back 12.6 Mean pitch of stays 11.2 Pitch across wide water spaces 14 3/16 Working pressures by rules Girders to Chamber tops: Material steel Depth and thickness of girder at centre 8 7/8 x 12 x 12.6 Length as per rule 27 13/16 Distance apart 6 7/8 Number and pitch of Stays in each 3 7 3/32

Working pressure by rules Superheater or Steam chest: how connected to boiler how 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

### VERTICAL DONKEY BOILER

No. Description Manufacturers of steel

Made at By whom made When made Where fixed

Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can enter the donkey boiler

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

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

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

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

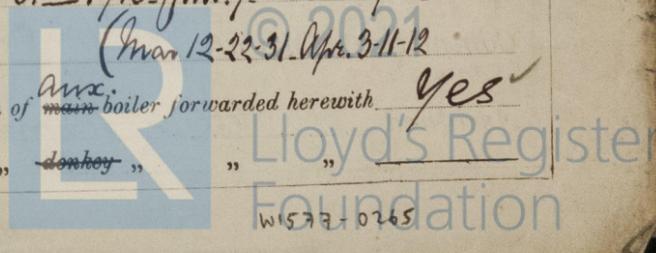
Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown plates Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

The foregoing is a correct description, Manufacturer. P. J. Sawyer

Dates of Survey while building: During progress of work in shops - 1912 July 22 - Aug. 1 - 22 - Sept. 7 - 17 - Oct. 2 - 19 - Nov. 21 - Dec. 3 - 16 - 31 - 1913 Jan. 9 - Feb. 11 - 17 - 26 - Mar. 5 - 1913 May 22 - 27 - June 5 - 16 - 27 - July 2 -

Total No. of visits 28

Is the approved plan of aux. boiler forwarded herewith Yes



GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. See Machinery Report -

Rpt. 13

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Certificate (if required) to be sent to  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee...	£ See	When applied for,
Special ...	Machinery	19.
Donkey Boiler Fee ...	Report	When received,
Travelling Expenses (if any) £		19.

*J. Demarest & W. Kerr.*  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. JUL. 25. 1913

Assigned *See Minute on No. R/L 687 attached*

