

# REPORT ON BOILERS.

No. 2714<sup>a</sup>

Received at London Office

APR 20 1909

Date of writing Report 19<sup>th</sup> April 1909 When handed in at Local Office 19 Port of Haare

No. in Survey held at Haare Date, First Survey 22<sup>nd</sup> April 1908 Last Survey 17<sup>th</sup> April 1909

Reg. Book. 44 on the M. Socu-Hamu Thelta II. "Engine Grosos" (Number of Visits 9)

Gross 4835.97  
Tons Net 3012.11

Master A. Roullier 92.09 Built at Dunkirk By whom built At. & Ch. de France When built 1909

Engines made at Haare By whom made Caillard & Co when made 1909

Boilers made at Haare By whom made Caillard & Co when made 1909

Nominal Registered Horse Power 325. Owners Comp. Havrais Peninsulaire Port belonging to Haare

## MULTITUBULAR BOILERS—~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel Rheinische Stahlwerk, Duisburg

(Letter for record 5) Total Heating Surface of Boilers 645 Sq. feet Is forced draft fitted No. No. and Description of Boilers Cylindrical horizontally Working Pressure 100<sup>th</sup> Tested by hydraulic pressure to 185<sup>th</sup> Date of test 27.10-08

No. of Certificate 71. Can each boiler be worked separately No. Area of fire grate in each boiler 32 Sq. feet No. and Description of safety valves to each boiler two with springs Area of each valve 1.98 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 24" Mean dia. of boilers 9' 1 1/2" Length 9' 5 1/8"

Material of shell plates Steel Thickness 5 1/8" Range of tensile strength 27 to 31. Are the shell plates welded or flanged flanged

Descrip. of riveting: cir. seams all double long. seams Lapped full Diameter of rivet holes in long. seams 3 1/32" Pitch of rivets 3. 1/16"

Lap of plates 8 1/16" Per centages of strength of longitudinal joint rivets 74. Working pressure of shell by rules 110<sup>th</sup> Size of manhole in shell 11 3/8" x 15 3/4" Size of compensating ring 25 1/2" x 29 1/2" x 5 1/8" No. and Description of Furnaces in each boiler two plain Material Steel Outside diameter 34 1/16" Length of plain part 8 5/8" Thickness of plates 9 1/16"

Description of longitudinal joint Welded No. of strengthening rings No. Working pressure of furnace by the rules 125<sup>th</sup> Combustion chamber plates: Material Steel Thickness: Sides 9 1/16" Back 19 1/32" Top 9 1/16" Bottom 25 1/32" Pitch of stays to ditto: Sides 7 3/8"-6 3/4" Back 7 3/8"

Top 7 3/8" If stays are fitted with nuts or riveted heads all nutted Working pressure by rules 125<sup>th</sup> Material of stays Steel Diameter at smallest part 1 3/32" Area supported by each stay 5 1/4" Working pressure by rules 125<sup>th</sup> End plates in steam space: Material Steel Thickness 1 1/16"

Pitch of stays 13 3/4" How are stays secured Doub. nuts Working pressure by rules 125<sup>th</sup> Material of stays Steel Diameter at smallest part 1 9/16"

Area supported by each stay 137<sup>th</sup> Working pressure by rules 120<sup>th</sup> Material of Front plates at bottom Steel Thickness 3/4" Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays 20" Working pressure of plate by rules 120<sup>th</sup> Diameter of tubes 2 13/16"

Pitch of tubes 4" Material of tube plates Steel Thickness: Front 3/4" Back 3/4" Mean pitch of stays 8" Pitch across wide water spaces 1 3/16" 12 3/4" Working pressures by rules 140<sup>th</sup> Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 4 3/16" 19 1/32" Length as per rule 26 1/2" Distance apart 6 7/8" Number and pitch of Stays in each 2 - 7 3/8"

Working pressure by rules 140<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, Caillardeu Manufacturer.

Dates of Survey } During progress of } 1908. Jan. 20. 26 - July. 30 Aug. 3. 12 Sep. 2. 25. Oct. 6. 27 } the approved plan of boiler forwarded herewith Yes.  
while building } During erection on } Erected on Board at Dunkirk. Total No. of visits 9 Yim!  
board cessel } board cessel - - - }

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c. This donkey boiler has been specially surveyed during the building, as per approved plan & Secretary Letter of the 22<sup>nd</sup> April 1908 (E) The materials used, tested at works, were in good and unalloyable quality. The workmanship was satisfactory. In my opinion it is most fit to be Classed & inserted in the Register Book.

Survey Fee ... £ 52:50 : } When applied for, 19<sup>th</sup> April 1909  
Expenses (if any) £ 5:00 : } When received, 20<sup>th</sup> April 1909

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

Committee's Minute FRI. 23 APR 1909  
Assigned see minute on attached report

