

# REPORT ON BOILERS.

No. 14549

Date of writing Report 1926 When handed in at Local Office 18/9 10 Port of Antwerp Received at London Office 20 SEP 1926

No. in Survey held at Grâce - Berleur (Belgium) Date, First Survey 2-6-26 Last Survey 19-8-1926

Reg. Book. on the Steel twin Screw Steamer "FRASCA" (Number of Visits Four) Gross 2601.58 Tons Net 1130.84

Master Schiedam Built at Schiedam By whom built Werk Gusta. A. F. Smulders When built 1926

Engines made at Schiedam By whom made do when made 1926

Boilers made at Grâce - Berleur By whom made Phaenomenia A. F. Smulders when made 1926

Registered Horse Power 236 Owners Curucousche Scheeps. Mij. Port belonging to Willemsstad

**MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY** Manufacturers of Steel Beardmore - G. H. Glasgow

(Letter for record 25B) Total Heating Surface of Boilers 20840 sq ft. Is forced draft fitted Yes No. and Description of Boilers two single ended multitubular Working Pressure 180 lb Tested by hydraulic pressure to 320 lb Date of test 19-8-26

No. of Certificate 131 Can each boiler be worked separately Yes Area of fire grate in each boiler 43.75 sq ft. No. and Description of safety valves to each boiler 2 high lifting spring loaded Area of each valve 70 sq in diam Pressure to which they are adjusted 100 lb

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 Over 3'-0" Mean dia. of boilers 13 1/32" Length 12'3"

Material of shell plates 1/2 in. Steel Thickness 1 3/32" Range of tensile strength 28/32 ton Are the shell plates welded or flanged flanged

Descrip. of riveting: cir. seams Double long. seams treble D. Butt Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 8 1/8"

Gap of plates or width of butt straps 18" Per centages of strength of longitudinal joint rivets 86.1 Working pressure of shell by rules 185 lb Size of manhole in shell 1'4 3/4" Size of compensating ring 1 1/8 x 5 7/8" No. and Description of Furnaces in each boiler two Morrison Material 1/2 in. Steel Outside diameter 3' 11 1/8" Length of plain part top 21/32" Thickness of plates bottom do

Description of longitudinal joint lap welded No. of strengthening rings none Working pressure of furnace by the rules 200 lb Combustion chamber plates: Material 1/2 in. Steel Thickness: Sides 7/8" Back 3/4" Top 7/8" Bottom 7/8" Pitch of stays to ditto: Sides 10 x 9 3/4" Back 8 x 7 3/4"

Top 10 x 8 1/2" If stays are fitted with nuts or riveted heads Riv. Head Working pressure by rules 212 lb Material of stays 1/2 in. Steel Diameter at smallest part 1 3/4" Area supported by each stay 622 sq in Working pressure by rules 290 lb End plates in steam space: Material 1/2 in. Steel Thickness 1 1/8"

Pitch of stays 1'6" x 1 1/2" How are stays secured nut & washer Working pressure by rules 220 lb Material of stays Steel Diameter at smallest part 2 1/2"

Area supported by each stay 270 sq in Working pressure by rules 226 lb Material of Front plates at bottom Steel Thickness 13/16" Material of lower back plate Steel Thickness 3/4" Greatest pitch of stays 11" x 13" Working pressure of plate by rules 190 lb Diameter of tubes 2 1/2"

Pitch of tubes 4" Material of tube plates Steel Thickness: Front 13/16" Back 3/4" Mean pitch of stays 8 x 12" Pitch across wide water spaces 14 3/4" Working pressures by rules 195 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 1/2" x 1 1/2" Length as per rule 34" Distance apart 8 1/2" Number and pitch of Stays in each 2 x 10" P

Working pressure by rules 198 lb Superheater or Steam chest; how connected to boiler \_\_\_\_\_ 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 \_\_\_\_\_ 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 \_\_\_\_\_

The foregoing is a correct description,

[Signature] Manufacturer.

Dates During progress of work in shops 2/6/28 - 7/7/28 - 27/7/28 - 19/8/28 Is the approved plan of boiler forwarded herewith Yes

While building During erection on board vessel do

Total No. of visits \_\_\_\_\_

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c. These boilers have been constructed to survey and the materials tested to the rules of this society. Workmanship is good and the Boilers have been tested by hydraulic pressure to 320 lb per square inch and found tight. The boiler is eligible in my opinion to be classed, and to have record of survey when the mounting has been fitted and the safety valves adjusted under steam to 180 lb pressure.

Survey Fee £ 49.48.69 When applied for, 23-8-1926

Travelling Expenses (if any) £ 589- When received, 31-8-1926

Specification: N<sup>o</sup> 131. LLOYD'S TEST. W.P. = 180 lb. T.P. = 320 lb.

J. L. Rabey F.R.S. 19-8-26  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute UES. 16 NOV 1926

Signed [Signature] No. 15799

