

# REPORT ON BOILERS.

Received at London Office

TUE. 11. SEP. 1917

Date of writing Report 17<sup>th</sup> August 1917 When handed in at Local Office 24<sup>th</sup> August 1917 Port of Göteborg  
 No. in Survey held at Oscarshamn Date, First Survey 30<sup>th</sup> June 1916 Last Survey 16<sup>th</sup> August 1917  
 Reg. Book. Sup. 132 on the Steel S.S. "Nasilia" (Number of Visits 19) Gross 2198 Tons Net 1292  
 Master C. G. K. Sahlström Built at Oscarshamn By whom built Oscarsh. hak. Verkol. & Skeppad. AB When built 1917  
 Engines made at Oscarshamn By whom made Oscarsh. hak. Verkol. & Skeppad. AB When made 1917  
 Boilers made at Oscarshamn By whom made Oscarsh. hak. Verkol. & Skeppad. AB When made 1917  
 Registered Horse Power ✓ Owners Pederiaktsk. Svenska Lloyd Port belonging to Göteborg

## MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel Harnesmannröhren-Werke, Abt. Schulz-Knecht

(Letter for record S) Total Heating Surface of Boilers 800 sq. feet Is forced draft fitted No No. and Description of Boilers One, cylindrical, multitubular Working Pressure 100 lbs. p. sq. Tested by hydraulic pressure to 300 lbs. p. sq. Date of test 10/4/17  
 No. of Certificate 103 Can each boiler be worked separately ✓ Area of fire grate in each boiler 28 sq. ft. No. and Description of safety valves to each boiler Two, spring loaded Area of each valve 5.94 sq. in. Pressure to which they are adjusted 100 lbs. p. sq.  
 Are they fitted with casing 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 Fitted in recess in hull Mean dia. of boiler 9'-11 3/8" Length 10'-0 1/2"  
 Material of shell plates Steel Thickness 3 3/32" Range of tensile strength 46,147 p. sq. Are the shell plates welded or flanged No  
 Descrip. of riveting: cir. seams None long. seams Double butt straps Diameter of rivet holes in long. seams 15/16" Pitch of rivets 3 5/8"  
 Lap of plates or width of butt straps 9 7/8" Per centages of strength of longitudinal joint rivets 71.8 Working pressure of shell by rules 124 lbs Size of manhole in shell 11 13/16" x 15 3/4" Size of compensating ring 3 1/2" x 2 3/32" No. and Description of Furnaces in each boiler 2 corrugated Material Steel Outside diameter 37 1/4" Length of plain part 7'-4 9/16" Thickness of plates 13/32"  
 Description of longitudinal joint Welded No. of strengthening rings ✓ Working pressure of furnace by the rules 143 lbs Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 5/8" Pitch of stays to ditto: Sides 8 1/4" Back 8 1/2" x 8 1/4" Top 8 7/8" If stays are fitted with nuts or riveted heads Riveted heads and nuts Working pressure by rules 119 lbs Material of stays Steel Diameter at smallest part 4 7/8" Area supported by each stay 66.9 sq. in. Working pressure by rules 129 lbs End plates in steam space: Material Steel Thickness 3/4"  
 Pitch of stays 17 3/4" x 14 3/4" How are stays secured Double nuts and outside Working pressure by rules 32 lbs Material of stays Steel Diameter at smallest part 1 7/8" Area supported by each stay 26.1 sq. in. Working pressure by rules 118 lbs Material of Front plates at bottom Steel Thickness 3/4" Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays to plan Working pressure of plate by rules 100 lbs Diameter of tubes 3 1/4"  
 Pitch of tubes 4 1/2" x 4 1/4" Material of tube plates Steel Thickness: Front 3/4" Back 3/4" Mean pitch of stays 8 1/2" x 8 1/2" Pitch across wide water spaces 14 3/16" Working pressures by rules 100 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 5 7/8" x 3/4" Length as per rule 34 1/2" Distance apart 8 27/32" Number and pitch of Stays in each One, 12 1/4"  
 Working pressure by rules 132 lbs 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 ✓  
 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 casing gear ✓

The foregoing is a correct description,  
 J. Carlsson / Erik Björklund Manufacturer.

Dates of Survey 1916: June 20, 21, July 4, 5, 24, 26, Oct. 4, Dec. 2, 18, 19 Is the approved plan of boiler forwarded herewith Commercial papers forwarded  
 while building 1917: Jan. 23, March 1, 27, 29, April 10, May 4 Total No. of visits 19  
1917: May 22, July 31, Aug. 16

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This donkey boiler has been built under special survey in accordance with the Society's Rules and the approved plan. The workmanship is good.

This donkey boiler is in a good and safe working condition and eligible in our opinion for a working pressure of 100 lbs per sq. inch.

Survey Fee ... £kr. 38.20: When applied for, 17<sup>th</sup> August 1917  
 Travelling Expenses (if any) £: When received, 13/9/17

V. Carlsson  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
 Assigned

FRI. 14. SEP. 1917

