

# REPORT ON BOILERS.

No. 3950.

MON. AUG. 19. 1918

Received at London Office

Date of writing Report 20<sup>th</sup> July 1918 When handed in at Local Office 20<sup>th</sup> July 1918 Port of Göteborg

No. in Survey held at Borås & Göteborg Date, First Survey 10<sup>th</sup> October 1917 Last Survey 20<sup>th</sup> June 1918

Reg. Book. 56 on the Steel Twin Sc. M. S. "Bullaren" (Number of Visits 5) Gross 5722 Tons Net 3428

Master O. G. W. Kullgren Built at Göteborg By whom built Aktiebolaget Götavarken When built 1918

Boiler made at Borås By whom made Borås Mek. Verkstads Aktiebolag When made 1918

Owners Rederiaktiebolaget Transatlantic Port belonging to Göteborg

**VERTICAL DONKEY BOILER** No. 1 Description Galloway tubes and wet uptake Manufacturers of steel Kista Jernverk Aktiebolag

Made at Borås By whom made Borås Mek. Verkstads Aktiebolag When made 1918 Where fixed Engine room Working pressure 80 lbs

Tested by hydraulic pressure to 160 lbs Date of test 2/1/18 No. of Certificate 118 Fire grate area ✓ Description of safety valves Spring loaded

No. of safety valves 2 Area of each 3.14 sq. ft. Pressure to which they are adjusted 85 lbs If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No Dia. of donkey boiler 4'-6 3/8" Length 8'-10 3/8" Material of shell plates Steel Thickness 1 1/32" Range of tensile strength 32-48 tons Descrip. of riveting long. seams Hot riveted lap Dia. of rivet holes 2 1/8" Whether punched or drilled Drilled Pitch of rivets 2 5/16"

Gap of plating 3 1/16" Per centage of strength of joint 75.0 Working pressure of shell by rules 84.5 lbs Thickness of shell crown plates 7/16"

Radius of do. 5'-7" No. of Stays to do. None Dia. of stays ✓ Diameter of furnace Top 40 3/8" Bottom 52 1/16" Length of furnace 77 3/8"

Thickness of furnace plates 15" Description of joint Hot riveted lap Working pressure of furnace by rules 94 lbs Thickness of furnace crown plates 15"

Radius of do. 47 1/4" Stayed by Uptake tube Diameter of uptake 12" Thickness of uptake plates 3/32"

Thickness of water tubes 1 3/32"

The foregoing is a correct description,  
**BORÅS MEKANISKA VERKSTADS AKTIEBOLAG** Manufacturer.  
Karl Nylander

Dates of Survey while building

During progress of work in shops - 1917: Oct. 10, Dec. 18, 1918: Jan. 8,

During erection on board vessel - 1918: Jan. 25, June 20.

Total No. of visits 5

Is the approved plan of boiler forwarded herewith Forwarded per Commercial papers post

**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 our opinion in a good and safe working condition at a working pressure of 80 lbs per sq. inch.

Survey Fee £120.00 When applied for 17<sup>th</sup> April 1918.

Travelling Expenses (if any) £53.35 When received 3<sup>rd</sup> July 1918.

W. Wilson Johnson  
 Engineer Surveyor to Lloyd's Register of Shipping.