

REPORT ON BOILERS.

No. 4309

Writing Report *14th October 1919* When handed in at Local Office *15th October 1919* Port of *Gothenburg*
 in Survey held at *Karlstad* Date, First Survey *30th Aug. 1918* Last Survey *1st September 1919*
 Book. on the *Main Boilers for the S. S. Johanna, Öresundsväret No 4* (Number of Visits *7*) Gross Tons *1* Net Tons *1*
 Built at *Landskrona* By whom built *Aktiel. Öresundsväret* When built *1919*
 Made at *Karlstad* By whom made *Aktiel. Karlstad Mek. Verkstad* When made *1919*
 Horse Power Owners Port belonging to

LTITUBULAR BOILERS—MAIN, ~~WATER~~ OR ~~DONKEY~~—Manufacturers of Steel *Strömans Jernverk Aktiel.*

For record *S.* Total Heating Surface of Boilers *35334 ft.* Is forced draft fitted *Yes* No. and Description of

Boilers *Two, cylindrical, multitubular* Working Pressure *200 lbs* Tested by hydraulic pressure to *✓* Date of test *✓*

of Certificate *139 & 140* Can each boiler be worked separately *✓* Area of fire grate in each boiler *41 sq. feet* No. and Description of

Valves to each boiler *✓* Area of each valve *✓* Pressure to which they are adjusted *✓*

Boilers fitted with easing gear *✓* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *✓*

Least distance between boilers or uptakes and bunkers or woodwork *✓* Mean dia. of boilers *4200 mm* Length *3380 mm*

Material of shell plates *Steel* Thickness *32 mm* Range of tensile strength *28-32 tons* Are the shell plates welded or flanged *No*

Direction of riveting: cir. seams *overlapped* long. seams *double riveted* Diameter of rivet holes in long. seams *33 mm* Pitch of rivets *232 mm*

Width of plates or width of butt straps *496 mm* Per centages of strength of longitudinal joint *85-6* Working pressure of shell by

204 lbs Size of manhole in shell *400 x 300* Size of compensating ring *1060 x 960 x 26 mm* No. and Description of Furnaces in each

Three, corrugated Material *Steel* Outside diameter *1050 mm* Length of plain part *top 14 mm* Thickness of plates *bottom 14 mm*

Direction of longitudinal joint *Welded* No. of strengthening rings *✓* Working pressure of furnace by the rules *209 lbs* Combustion chamber

Material *Steel* Thickness: Sides *20 mm* Back *30 mm* Top *20 mm* Bottom *20 mm* Pitch of stays to ditto: Sides *200 x 230* Back *215 x 240*

230 mm If stays are fitted with nuts or riveted heads *Riveted heads* Working pressure by rules *200 lbs* Material of stays *Steel* Area at

st part *1140 mm* Area supported by each stay *576 mm* Working pressure by rules *200 lbs* End plates in steam space: Material *Steel* Thickness *25 mm*

of stays *470 x 40 mm* How are stays secured *Riveted heads* Working pressure by rules *200 lbs* Material of stays *Steel* Area at smallest part *465 mm*

supported by each stay *2068 mm* Working pressure by rules *234 lbs* Material of Front plates at bottom *Steel* Thickness *22 mm* Material of

back plate *Steel* Thickness *20 mm* Greatest pitch of stays *215 x 240 mm* Working pressure of plate by rules *200 lbs* Diameter of tubes *83 mm*

of tubes *114 mm* Material of tube plates *Steel* Thickness: Front *26 mm* Back *20 mm* Mean pitch of stays *228 mm* Pitch across wide

spaces *375 mm* Working pressures by rules *200 lbs* Girders to Chamber tops: Material *Steel* Depth and thickness of

at centre *230 x 36 mm* Length as per rule *600 mm* Distance apart *230 mm* Number and pitch of Stays in each *Two, 200 mm*

Working pressure by rules *363 lbs* Steam dome: description of joint to shell *✓* % of strength of joint

er Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

of rivets Working pressure of shell by rules Crown plates Thickness How stayed

REHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,
 AKTIEBOLAGET KARLSTADS MEKANISKA VERKSTAD
J. Bollnäs Manufacturer.

During progress of *1918: Aug. 30, Sept. 20, Oct. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31* Is the approved plan of boiler forwarded herewith *Yes*

work in shops - *1919: Jan. 20, Feb. 20, March 20, April 20, May 20, June 20, July 20, Aug. 20, Sept. 20, Oct. 20, Nov. 20, Dec. 20* Total No. of visits *13*

During erection on board vessel -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *These boilers have been built under*

ial survey in accordance with the Rules and the approved plans. The workmanship

of good quality. These boilers will be tested at Landskrona and when the survey is

pleted they are in our opinion in a good and safe working condition for a

king pressure of 200 lbs per square inch

Survey Fee *£ 400.00* When applied for *17th Oct. 1919*

Selling Expenses (if any) *£ 360.00* When received *1919*

Committee's Minute TUE. MAY. 4 1920

ed

Paul Johnson
 Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register
 Foundation

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