

MAY 19

REPORT ON BOILERS.

No. 17622

24 MAY 1944

Received at Local Office

9th May 1944 with heading at Local Office 44 Port of Gothenburg.
 Survey held at Gothenburg Date, First Survey 7th Dec. 1943 Last Survey 14th April 1944.
 (Number of Visits 11) (Gross 5414 Tons) (Net 305)
 on the S.S. "SAIVO"
 Built at Gothenburg By whom built A-B. Götaverken Yard No. 589 When built 1944.
 Engines made at Gothenburg By whom made A-B. Götaverken Engine No. 1649 When made 1944.
 Boilers made at Gothenburg By whom made A-B. Götaverken Boiler No. 2259 When made 1943.
 Owners Trafik A-B. Grängesberg-Oxelösund Port belonging to Stockholm

VERTICAL DONKEY BOILER.

Made at Gothenburg By whom made A-B. Götaverken Boiler No. 2259 When made 1943 Where fixed E.R. floor

Manufacturers of Steel Avesta Jernverke A-B. Avesta

Total Heating Surface of Boiler 12.00 m² Is forced draught fitted No Coal or Oil fired Oil

No. and Description of Boilers 1 vertical cross-tube Working pressure 6 kg/cm² = 85 lb.

Tested by hydraulic pressure to 12 kg/cm² Date of test 26th November, 1943 No. of Certificate 400

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 1 double spring loaded

Area of each set of valves per boiler { per rule 2x35 mm² 1046 Pressure to which they are adjusted 55 lb/in² Are they fitted with easing gear Yes
 as fitted 2x35 mm² 2268 D

State whether steam from main boilers can enter the donkey boiler No main boilers Smallest distance between boiler or plate and bunkers

Is oil fuel carried in the double bottom under boiler Yes Smallest distance between base of boiler and tank top plating

About 1 metre Is the base of the boiler insulated Yes Largest internal dia. of boiler 1400 mm Height 3774 mm

Shell plates: Material S.M. Steel Tensile strength 41/47 kg/mm² Thickness 10 mm

Are the shell plates welded or flanged No Description of riveting: circ. seams { end S.R. 1st long seams D.R. 1st
 inter S.R. 1st

Dia. of rivet holes in { circ. seams 20 mm Pitch of rivets { 50 mm Percentage of strength of circ. seams { plate 60 of Longitudinal joint { plate 49.7
 long seams 20 mm 65 mm rivets 55.2 rivets 52.7 combined

Working pressure of shell by rules 9.55 kg/cm² Thickness of butt straps { outer inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Dished partial spherical Material S.M. Steel

Tensile strength 41/47 kg/mm² Thickness 12 mm Radius 1120 mm Working pressure by rules 11.1 kg/cm²

Description of Furnace: Plain, spherical, or dished crown Dished Material S.M. Steel Tensile strength 41/47 kg/mm²

Thickness 14.5 mm External diameter { top 1120 mm Length as per rule 1935 mm Working pressure by rules 6.55 kg/cm²
 bottom 1229 mm 1250

Pitch of support stays circumferentially and vertically Are stays fitted with nuts or riveted over

Diameter of stays over thread Radius of spherical or dished furnace crown 893 mm Working pressure by rule 8.47 kg/cm²

Thickness of Ogee Ring 14.5 mm Diameter as per rule { D 1350 mm Working pressure by rule 2.14 kg/cm²
 d 1229 mm

Combustion Chamber: Material Tensile strength Thickness of top plate

Radius of dished Working pressure by rule Thickness of back plate Diameter circular

Length as per rule Pitch of stays Are stays fitted with nuts or riveted over

Diameter of stay over thread Working pressure of back plate by rules

Tube Plates: Material { front Tensile strength Thickness Manipulation of stay tubes in nests

If conforming shell Dia. as per rule { front Pitch in outer vertical lines Dia. of tube holes FRONT BACK
 back

Is each alternate tube connected to a stay tube Working pressure of back plate by rules

Girders to combustion chamber: Material Tensile strength

Depth and thickness of girder at each end Length as per rule



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Crown stays: Material..... Tensile strength..... Diameter { at head of stay, or over threads.....
 No. of threads per inch..... Area supported by each stay..... Working pressure by rules.....
 Screw stays: Material..... Tensile strength..... Diameter { at head of stay, or over threads..... No. of threads per inch.....
 Area supported by each stay..... Working pressure by rules..... Are the stays drilled at the outer ends.....
 Tubes: Material..... External diameter { plain stay..... Thickness {
 No. of threads per inch..... Pitch of tubes..... Working pressure by rules.....
 Manhole Compensation: Size of opening in shell plate 305x405 mm. ✓ Section of compensating ring 221x95.2 mm. ✓ No. of rivets and diameter of rivet holes 42, 20 mm. ✓ Outer row rivet pitch at ends 80 mm. ✓ Depth of flange if manhole flanged.....
 Uptake: External diameter 229 729 mm. ✓ Thickness of uptake plate 12 mm. ✓
 Gross Tubes: No. 4 ✓ External diameters { 255 mm. ✓ Thickness of plates 10 mm. ✓
 Have all the requirements of Sections 14 to 32 inclusive for boilers been complied with Yes.....

The foregoing is a correct description,
 ARTY. GOLACHN OSTAVUKEN

Manufacture

Dates { During progress of work in shops - - - - - 7th October 1943 - 14th April 1944. Is the approved plan of boiler forwarded herewith 1st 10th 1944. (If not state date of approval.)
 while { During erection on board vessel - - - - - Total No. of visits 11

Is this Boiler a duplicate of a previous case Yes..... If so, state Vessel's name and Report No. "Skorvick", Rpt. No. 1387

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Junker boiler has been built under special survey in accordance with the Rules and approved plan. ✓

The workmanship and materials are good and test sheets for the latter which were made in Sweden are attached.

The boiler has been securely fitted in the vessel under examination and to the satisfaction and the safety valves adjusted under steam to 15 lb./sq. inch.

Survey Fee £
 Travelling Expenses (if any) £

When reported for 19
 When received 18

see minute
 on 28. Apr.

