

## REPORT ON BOILERS.

No. 24772.

129 JAN 1959

Received at London Office MONDAY 2 MAR 1959

of writing Report.....17/2.....1959. When handed in at Local Office.....27/2.....1959 Port of.....Gothenburg

to in Survey held at.....Sävsjö Date, First Survey.....5/11 -58 Last Survey.....13/2.....1959.

of open Book on the..... (Number of Visits.....3.....) Tons {Gross.....abt. 1500 Net.....}

lt at.....Gävle By whom built.....A/B Gävle Varv Yard No. 102 When built.....1959

ines made at..... By whom made..... Engine No. When made.....

diameter made at.....Sävsjö By whom made.....A/B Vatten och Ånga Boiler No. 25308 When made.....1959

as per Rule..... Owners.....U. S. S. R. Port belonging to.....

MULTITUBULAR BOILERS ~~MAIN~~ ~~AUXILIARY~~ OR DONKEY.

Manufacturers of Steel.....Domnarfvet's Jernverk, A/B Storfors Rörverk.

al Heating Surface of Boilers.....26 m<sup>2</sup> Of Superheaters.....

al for Register Book.....26 m<sup>2</sup> Is forced draught fitted.....Yes Coal or Oil fired.....Oil

and Description of Boilers.....One single ended, multitubular "Univex" Working Pressure.....85 lbs.

ed by hydraulic pressure to.....170 lbs. Date of test.....13/2 -59 No. of Certificate..... Can each boiler be worked separately.....

a of Firegrate in each Boiler..... No. and Description of safety valves to each boiler.....One double springloaded 2 x 56 mm.

a of each set of valves per boiler {per Rule.....2270 mm. 2246 as fitted.....4926 mm. Pressure to which they are adjusted..... Are they fitted with easing gear.....

ase of donkey boilers, state whether steam from main boilers can enter the donkey boiler.....

llest distance between boilers or uptakes and bunkers or woodwork..... Is oil fuel carried in the double bottom under boilers.....

llest distance between boilers or uptakes and bunkers or woodwork..... Is the bottom of the boiler insulated.....Yes

anufa.....est internal dia. of boilers.....1280 mm. Length.....1400 mm. Shell plates: Material.....S.M. Steel Tensile strength.....43.9-45.9 kg/mm<sup>2</sup>

ndon.....ision welded, state name of welding Firm.....A/B Vatten och Ånga Have all the requirements of the Rules for Class I vessels

complied with Yes Thickness.....10 mm. Are the shell plates welded or flanged.....Welded Description of riveting: circ. seams {end..... inter.....}

seams..... Diameter of rivet holes in {circ. seams..... long. seams.....} Pitch of rivets {.....}

entage of strength of circ. end seams {plate..... rivets.....} Percentage of strength of circ. intermediate seam {plate..... rivets.....}

entage of strength of longitudinal joint {plate..... rivets..... combined.....}

he.....kness of butt straps {outer..... inner.....} No. and Description of Furnaces in each Boiler.....One cylindrical

erial.....S.M. Steel Tensile strength.....43.9 - 45.9 kg/mm<sup>2</sup> Smallest outside diameter.....440 mm.

th of plain part {top..... bottom.....} 1400 mm. Thickness of plates.....10 mm. Description of longitudinal joint.....E.W.

ensions of stiffening rings on furnace or c.c. bottom.....

d plates in steam space: Material.....S.M. Steel Tensile strength.....43.9 - 45.9 Thickness.....10 mm. Pitch of stays.....250 mm.

are stays secured.....Welded in doubling and end plate.

e plates: Material {front..... back.....} S.M. Steel Tensile strength {43.9 - 45.9 43.9 - 45.9} Thickness {10 mm. 10 mm.}

an pitch of stay tubes in nests..... Pitch across wide water spaces.....

lders to combustion chamber tops: Material..... Tensile strength..... Depth and thickness of girder

entre..... Length as per Rule..... Distance apart..... No. and pitch of stays

ch..... Combustion chamber plates: Material.....

ile strength..... Thickness: Sides..... Back..... Top..... Bottom.....

of stays to ditto: Sides..... Back..... Top..... Are stays fitted with nuts or riveted over.....

t plate at bottom: Material.....S.M. Steel Tensile strength.....43.9 - 45.9 kg/mm<sup>2</sup>

ness.....10 mm. Lower back plate: Material.....S.M. Steel Tensile strength.....43.9 - 45.9 kg/mm<sup>2</sup> Thickness.....10 mm.

of stays at wide water space..... Are stays fitted with nuts or riveted over.....

stays: Material.....S.M. Steel Tensile strength.....48.6 - 50.0 kg/mm<sup>2</sup>

ippi.....ter {At body of stay..... or Over threads.....} 50 mm. No. of threads per inch.....

v stays: Material..... Tensile strength.....

ter {At turned off part..... or Over threads.....} No. of threads per inch.....

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Are the stays drilled at the outer ends --- Margin stays: Diameter --- { At turned off part, ---  
 No. of threads per inch --- { Over threads, ---  
 Tubes: Material S.M. Steel External diameter 60 mm. Thickness 4 mm. No. of threads per inch E.W.  
 Pitch of tubes 65 x 75 mm. Manhole compensation: Size of opening ---  
 shell plate 300 x 400 mm. Section of compensating ring 3960 mm.<sup>2</sup> No. of rivets and diameter of rivet holes E.W.  
 Outer row rivet pitch at ends --- Depth of flange if manhole flanged --- Steam Dome: Material S.M. Material  
 Tensile strength 43.9 - 45.9 kg/mm<sup>2</sup> Thickness of shell 10 mm. Description of longitudinal joint E.W.  
 Diameter of rivet holes --- Pitch of rivets --- Percentage of strength of joint { Plate ---  
 Rivets ---  
 Internal diameter 230 mm. Thickness of crown 15 mm. No. and diameter of stays ---  
 Inner radius of crown ---  
 How connected to shell Electrically welded Size of doubling plate under dome --- Diameter of rivet holes and of rivets in outer row in dome connection to shell ---  
 Type of Superheater --- Manufacturers of { Tubes ---  
 Steel forgings ---  
 Steel castings ---  
 Number of elements --- Material of tubes --- Internal diameter and thickness of tubes ---  
 Material of headers --- Tensile strength --- Thickness --- Can the superheater be shut off the boiler be worked separately ---  
 Is a safety valve fitted to every part of the superheater which can be shut off from the boiler ---  
 Area of each safety valve --- Are the safety valves fitted with easing gear ---  
 Pressure to which the safety valves are adjusted --- Hydraulic test pressure ---  
 tubes --- forgings and castings --- and after assembly in place --- Are drain valves fitted to free the superheater from water where necessary ---  
 Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes.

The foregoing is a correct description,

AKHEBOLAGET VATTEN OCH ÅNGA

Manuf

London

29.6.5

Dates of Survey { During progress of work in shops - - } 5/11 -58 - 13/2 -59. Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)  
 while building { During erection on board vessel - - - } Total No. of visits 3.

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. Gävle Varv Yard No.101 - Gothenburg FE Report no. 24504.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This donkey boiler has been built under Special Survey in accordance with the Rules for Welded Pressure Vessels Class I. The workmanship is good. All welded parts of the boiler have been stress-relieved in accordance with the Rules. The material fulfils the requirements of the Rules. Test sheets of the materials are attached. Routine tests of the welding have been carried out with satisfactory results. Plan showing position and number of X-ray films and table on which is indicated the category in which each film was placed by Tekniska Röntgencentralen are attached.

The boiler has been marked:-

No. 830  
 Lloyd's test GOT. 170 lbs.  
 WP 85 lbs.  
 BJ 13.2.59.  
 Tilly. No. 25308.

Survey Fee ... .. Kr. 320:- : When applied for, 27/2 19.59.  
 Travelling Expenses (if any) Kr. 60:- : When received, 19.59.

B. Johanning  
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute FRIDAY 11 MAR 1960

Assigned See Rpt. 1.



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