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## REPORT ON BOILERS.

No. 24544.

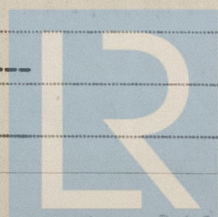
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Date of writing Report 19/11 19 58 When handed in at Local Office 24/11 19 58 Port of Gothenburg  
 Survey held at Sävsjö Date, First Survey 20/8 Last Survey 5/11 19 58  
 (Number of Visits 3) Gross abt. 1500 Tons Net  
 on the  
 built at Gävle By whom built A/B Gävle Varv Yard No. 101 When built 1958  
 engines made at Augsburg By whom made Masch. Fabr. Augsburg-Nürnberg Engine No. When made 1958  
 diameter of boiler made at Sävsjö By whom made A/B Vatten och Ånga Boiler No. 25307 When made 1958  
 and pitch as per Rule Owners U. S. S. R. Port belonging to

## MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel A/B Domnarvets Järnverk, A/B Storfors Rörverk.  
 Total Heating Surface of Boilers 26 m<sup>2</sup> Of Superheaters ---  
 Total for Register Book 26 m<sup>2</sup> Is forced draught fitted Yes Coal or Oil fired Oil  
 No. and Description of Boilers One single ended multitubular "Univex" Working Pressure 85 lbs.  
 Pressure tested by hydraulic pressure to 170 lbs. Date of test 5/11 -58 No. of Certificate --- Can each boiler be worked separately ---  
 Area of Firegrate in each Boiler --- No. and Description of safety valves to each boiler One double spring loaded 2 x 56 mm.  
 Area of each set of valves per boiler { per Rule 2270 mm.  
 as fitted 4928 mm. Pressure to which they are adjusted --- Are they fitted with easing gear ---  
 In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ---  
 Smallest distance between boilers or uptakes and bunkers or woodwork --- Is oil fuel carried in the double bottom under boilers ---  
 Smallest distance between boilers or uptakes and bunkers or woodwork --- Is the bottom of the boiler insulated Yes  
 Largest internal dia. of boilers 1280 mm. Length 1400 mm. Shell plates: Material S.M. Steel Tensile strength 45.2 - 49.9 kg/mm<sup>2</sup>  
 fusion welded, state name of welding Firm A/B Vatten och Ånga Have all the requirements of the Rules for Class I vessels  
 Have complied with Yes Thickness 10 mm. Are the shell plates welded or flanged Welded Description of riveting: circ. seams { end ---  
 inter ---  
 long. seams --- Diameter of rivet holes in { circ. seams ---  
 long. seams --- Pitch of rivets { ---  
 Percentage of strength of circ. end seams { plate ---  
 rivets --- Percentage of strength of circ. intermediate seam { plate ---  
 rivets ---  
 Percentage of strength of longitudinal joint { plate ---  
 rivets ---  
 combined ---  
 Thickness of butt straps { outer ---  
 inner --- No. and Description of Furnaces in each Boiler One cylindrical  
 Material S.M. Steel Tensile strength 45.2 - 49.9 kg/mm<sup>2</sup> Smallest outside diameter 440 mm.  
 Length of plain part { top 1800  
 bottom 1400 mm. Thickness of plates 10 mm. Description of longitudinal joint Electrically welded.  
 Dimensions of stiffening rings on furnace or c.c. bottom ---  
 End plates in steam space: Material S.M. Steel Tensile strength 45.2 - 49.9 Thickness 10 mm. Pitch of stays 250 mm.  
 How are stays secured Welded in doubling and end plate.  
 End plates: Material { front S.M. Steel Tensile strength 45.2 - 49.9 Thickness 10 mm. ✓  
 back S.M. Steel Tensile strength 45.2 - 49.9 Thickness 10 mm. ✓  
 Can pitch of stay tubes in nests --- Pitch across wide water spaces ---  
 Orders to combustion chamber tops: Material --- Tensile strength --- Depth and thickness of girder  
 centre --- Length as per Rule --- Distance apart --- No. and pitch of stays  
 each --- Combustion chamber plates: Material ---  
 Tensile strength --- Thickness: Sides --- Back --- Top --- Bottom ---  
 Pitch of stays to ditto: Sides --- Back --- Top --- Are stays fitted with nuts or riveted over ---  
 End plate at bottom: Material S.M. Steel Tensile strength 45.2 - 49.9 kg/mm<sup>2</sup>  
 Thickness 10 mm. Lower back plate: Material S.M. Steel Tensile strength 45.2 - 49.9 kg/mm<sup>2</sup> Thickness 10 mm.  
 Pitch of stays at wide water space --- Are stays fitted with nuts or riveted over ---  
 In stays: Material S.M. Steel Tensile strength 48.6 - 50.0 kg/mm<sup>2</sup>  
 Diameter { At body of stay 50 mm. ✓ No. of threads per inch ---  
 Over threads ---  
 New stays: Material --- Tensile strength ---  
 Diameter { At turned off part --- No. of threads per inch ---  
 Over threads ---

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Are the stays drilled at the outer ends --- Margin stays: Diameter --- { At turned off part, --- or --- Over threads ---

No. of threads per inch ---

Tubes: Material S.M. Steel External diameter { Plain 60 mm. ✓ Stay --- 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 45.2 - 49.9 kg/mm<sup>2</sup> Thickness of shell 10 mm. Description of longitudinal joint Electrically welded.

Diameter of rivet holes --- Pitch of rivets --- Percentage of strength of joint { Base --- Rivets ---

Internal diameter 230 mm. Thickness of crown 15 mm. No. and diameter ---

stays --- Inner radius of crown ---

How connected to shell Electrically welded Size of doubling plate under dome --- Diameter of rivet holes and pitch 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 and 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 cocks ---

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,  
AKIEBOLAGET VATTEN OCH ÅNGA

Manufacturers  
London

Dates of Survey while building { During progress of work in shops - - 20/8 - 5/11 -58. Are the approved plans of boiler and superheater forwarded herewith 29.6.57. (If not state date of approval.)

{ 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. A/B Gävle Varv, Yard No.100- Gothenburg FE Report No. 24200.

**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 boiler have been stress-relieved in accordance with the Rules. The material fulfils the requirements of the Rules. Test sheets of the material are attached. Routine tests of the welding have been carried out with satisfactory results. Plans showing position and number of X-ray films and table on which is indicated the category in which each film was placed. Tekniska Röntgencentralen are attached.

The Boiler has been marked:-

No. 822  
Lloyd's test Got. 180 lbs.  
WP 85 lbs.  
BGJ 5.11.58.  
Tilly. No. 25307.

Survey Fee ... Kr. 320:- : When applied for, 24/11 1958

Travelling Expenses (if any) Kr. 60:- : When received 1958

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRIDAY 11 DEC 1958

Assigned See Rpt. 1



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