

# REPORT ON BOILERS.

No. 24200.

23 JUN 1958

Received at London Office.

Writing Report 5/6 1958 When handed in at Local Office 16/6 1958 Port of Gothenburg

Survey held at Sävsjö Date, First Survey 18/9 -57 Last Survey 28/5 1958  
(Number of Visits 3) Tons { Gross 1500 Net -

on the

at Gävle By whom built A/B Gävle Varv Yard No. 100 When built 1958

es made at Augsburg By whom made Maschinenfabrik Augsburg-Nürnberg A.G Engine No. -- When made --

rs made at Sävsjö By whom made A/B Vatten och Ånga Boiler No. 25306 When made 1958.

s per Rule --- Owners U S S R Port belonging to Leningrad

LTITUBULAR BOILERS ~~MAIN, AUXILIARY, OR~~ DONKEY.

Manufacturers of Steel Domnarfvets Jernverk, A/B Storfors Rörverk

l Heating Surface of Boilers 26 m<sup>2</sup> Of Superheaters ---

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/sq. inch

ed by hydraulic pressure to 178 lbs/sq. inch Date of test 28/5 -58. No. of Certificate 807 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.

of each set of valves per boiler { per Rule 2240 Pressure to which they are adjusted -- Are they fitted with easing gear --  
as fitted 4930

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

est internal dia. of boilers 1286 mm. Length 1400 Shell plates: Material S.M. Steel Tensile strength 43.1-45.9 kg/cm<sup>2</sup>

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 ---

ickness of butt straps { outer --- inner --- No. and Description of Furnaces in each Boiler One cylindrical

erial S.M. Steel Tensile strength 49.5 kg/mm<sup>2</sup> Smallest outside diameter 440 mm.

gth of plain part { top 1400 Thickness of plates 10 mm. Description of longitudinal joint Electrically welded

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

nd plates in steam space: Material S.M. Steel Tensile strength 43.1 - 45.9 kg/cm<sup>2</sup> Thickness 10 mm. Pitch of stays 250 mm.

ow are stays secured Welded in doubling and end plate

be plates: Material { front S.M. Steel Tensile strength 43.1 - 45.9 Thickness 10 mm. ✓  
back S.M. Steel Tensile strength 43.1 - 45.9 Thickness 10 mm. ✓

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

orders to combustion chamber tops: Material --- Tensile strength --- Depth and thickness of girder

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

each --- Combustion chamber plates; Material ---

nsile strength --- Thickness: Sides --- Back --- Top --- Bottom ---

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

ont plate at bottom: Material S.M. Steel Tensile strength 43.1 - 45.9

ickness 10 mm. Lower back plate: Material S.M. Steel Tensile strength 43.1 - 45.9 Thickness 10 mm.

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

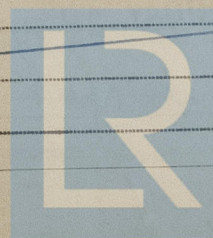
in stays: Material S.M. Steel Tensile strength 54.6 - 55.1 kg/mm<sup>2</sup>

meter { At body of stay 50 mm. No. of threads per inch ---  
or Over threads --- Tensile strength ---

ew stays: Material ---

meter { At turned off part --- No. of threads per inch ---  
or Over threads --- Tensile strength ---

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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 450 x 550 mm. Section of compensating ring 4920 mm<sup>2</sup> No. of rivets and diameter of rivet holes Electrically welded  
Outer row rivet pitch at ends. --- Depth of flange if manhole flanged. --- Steam Dome: Material S.M. Material  
Tensile strength 43.1 - 45.9 Thickness of shell 10 mm. ✓ Description of longitudinal joint Electrically welded  
Diameter of rivet holes. --- Pitch of rivets. --- Percentage of strength of joint { Plate... ---  
Rivets... ---  
Internal diameter 480 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  
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 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,

Manufaktur

Dates of Survey { During progress of work in shops - - 18/9 -57 - 28/5 -58 Are the approved plans of boiler and superheater forwarded herewith 29.6.57.  
while building { During erection on board vessel - - - Total No. of visits 3.

Is this Boiler a duplicate of a previous case No If so, state Vessel's name and Report No. ---

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 fulfil 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 a table on which is indicated the category in which each film was  
placed by Tekniska Röntgencentralen are attached.

The Boiler has been marked:-

Nr. 807  
Lloyd's test 178 lbs.  
WP 85 lbs.  
G.U. 28.5.58..

Survey Fee ... Kr. 250:- : When applied for, 16/6 19.58.  
Travelling Expenses (if any) Kr. 60:- : When received, --- 19---

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRIDAY 24 JUL 1959

Assigned

See Rpt. 1.



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