

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 -

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

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

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

Boilers 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

Heating Surface of Boilers 26 m² Of Superheaters ---for Register Book 26 m² 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

tested by hydraulic pressure to 178 lbs/sq. inch Date of test 28/5 -58. No. of Certificate 807 Can each boiler be worked separately ---

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

No. of each set of valves per boiler { per Rule 2240 as fitted 4930 Pressure to which they are adjusted --- Are they fitted with easing gear ---

Use of donkey boilers, state whether steam from main boilers can enter the donkey boiler --- 15.8.58

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

Smallest internal dia. of boilers 1286 mm. Length 1400 Shell plates: Material S.M. Steel Tensile strength 43.1-45.9 kg/cm²

Welding process 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 ---

Longitudinal 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 49.5 kg/mm² Smallest outside diameter 440 mm.

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

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

Stays and plates in steam space: Material S.M. Steel Tensile strength 43.1 - 45.9 kg/cm² Thickness 10 mm. Pitch of stays 250 mm.

How are stays secured Welded in doubling and end plate

Front and back 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.

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 ---

Material --- 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 ---

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

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

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

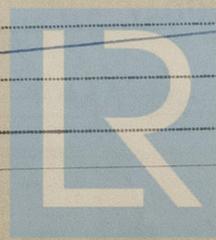
Main stays: Material S.M. Steel Tensile strength 54.6 - 55.1 kg/mm²

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

New stays: Material --- Tensile strength ---

Diameter { At turned off part, --- No. of threads per inch --- { 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 mm² 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 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 from the boiler _____

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 cock 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,

Per Gunnar Ericsson Manufacturer

London 29.6.58.

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 Yes. (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 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.

16.6.59

Survey Fee Kr. 250:- : } When applied for, 16/6 1958.

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

Gunnar Ericsson
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRIDAY 24 JUL 1959

Assigned See Rpt. 1.