

t. 5a.

REPORT ON BOILERS.

No. 24772.
129 JAN 1959

Received at London Office MONDAY 2 MAR 1959

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

No. in Survey held at Sävsjö Date, First Survey 5/11 -58 Last Survey 13/2 1959.

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

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

diameters 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 Domnarfvets Jernverk, A/B Storfors Rörverk.

Total Heating Surface of Boilers 26 m² Of Superheaters

Area for Register Book 26 m² Is forced draught fitted Yes Coal or Oil fired Oil

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

Tested by hydraulic pressure to 170 lbs. Date of test 13/2 -59 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 springloaded 2 x 56 mm.

Area 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

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

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

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

Smallest internal dia. of boilers 1280 mm. Length 1400 mm. Shell plates: Material S.M. Steel Tensile strength 43.9-45.9 kg/mm²

Position 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

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 43.9 - 45.9 kg/mm² Smallest outside diameter 440 mm.

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

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

Stays 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.

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

Minimum pitch of stay tubes in nests Pitch across wide water spaces

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

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

Combustion chamber plates; Material

Minimum 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 43.9 - 45.9 kg/mm²

Thickness 10 mm. Lower back plate: Material S.M. Steel Tensile strength 43.9 - 45.9 kg/mm² Thickness 10 mm.

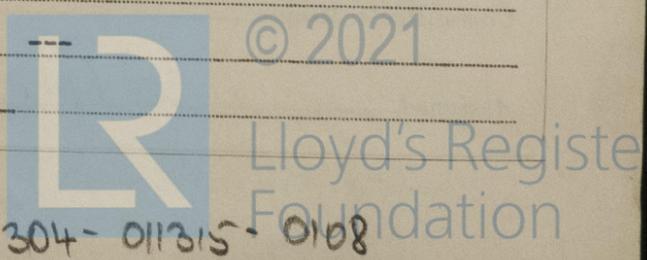
Pitch of stays at wide water space Are stays fitted with nuts or riveted over

End stays: Material S.M. Steel Tensile strength 48.6 - 50.0 kg/mm²

At body of stay 50 mm. No. of threads per inch

End stays: Material Tensile strength
At turned off part No. of threads per inch

PLEASE RETURN THIS REPORT WITH YOUR FIRST ENTRY.



011304-011315-0108

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. 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.² 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/mm² 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

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,
AKERBOLAGET VATTENLOCH ANGA
 Manufactory
 London
 29.6.59

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 Specification 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.

5.260

Survey Fee Kr. 320:- : } When applied for, 27/2 19. 59.

Travelling Expenses (if any) Kr. 60:- : } When received, --- 19. ---

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

Committee's Minute FRIDAY 11 MAR 1960

Assigned See Rpt. 1.