

pt. 5a.

# REPORT ON BOILERS.

No. 12248

Received at London Office.....

Date of writing Report 27/10 1959. When handed in at Local Office..... 19..... Port of Stockholm

No. in Survey held at Gävle Date, First Survey 15.1.59. Last Survey 4.9. 1959. (Number of Visits 3.....) Tons Gross 1500 Net -

40015 on the Twin Screw Motorship "AGATAN"

Built at Gävle By whom built A/B Gävle Varv Yard No. 100 When built 1959

Engines made at Hamburg By whom made Maschinenfabrik Augsburg-Nürnberg AG Engine No. 405252/3 When made 1958

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

As per Rule - Owners U.S.S.R. Port belonging to Leningrad

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

*Handwritten: GOT. RPT. No. 24544*

Manufacturers of Steel.....

Total Heating Surface of Boilers..... Of Superheaters.....

Total for Register Book..... Is forced draught fitted..... Coal or Oil fired.....

No. and Description of Boilers..... Working Pressure.....

Tested by hydraulic pressure to..... Date of test..... No. of Certificate..... Can each boiler be worked separately.....

Area of Firegrate in each Boiler..... No. and Description of safety valves to each boiler.....

Area of each set of valves per boiler { per Rule..... as fitted..... } Pressure to which they are adjusted 85 lbs/sq. ins they fitted with easing gear. Yes

~~Case of donkey boilers, state whether they are main boilers or donkey boilers~~

Smallest distance between boilers or uptakes and bunkers ~~as per Rule~~ 710 mm Is oil fuel carried in the double bottom under boilers. No

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

Largest internal dia. of boilers..... Length..... Shell plates: Material..... Tensile strength.....

fusion welded, state name of welding Firm..... Have all the requirements of the Rules for Class I vessels

Compliance with..... Thickness..... Are the shell plates welded or flanged..... Description of riveting: circ. seams { end..... inter..... }

g. 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

Material..... Tensile strength..... Smallest outside diameter.....

Length of plain part { top..... bottom..... } Thickness of plates..... Description of longitudinal joint.....

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

End plates in steam space: Material..... Tensile strength..... Thickness..... Pitch of stays.....

How are stays secured.....

End plates: Material { front..... back..... } Tensile strength..... Thickness {

Span 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.....

Thickness: Sides..... Back..... Top..... Bottom.....

Are stays fitted with nuts or riveted over.....

End plate at bottom: Material..... Tensile strength.....

Lower back plate: Material..... Tensile strength..... Thickness.....

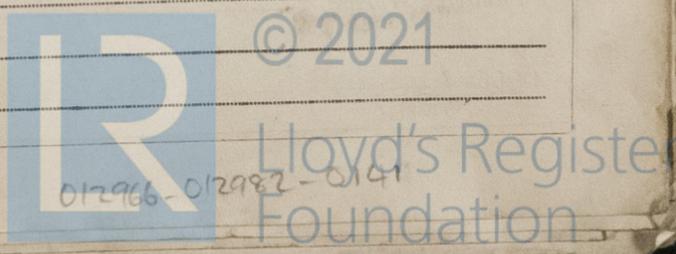
Are stays fitted with nuts or riveted over.....

End stays: Material..... Tensile strength.....

meter { At body of stay..... or Over threads..... } No. of threads per inch..... Tensile strength.....

New stays: Material.....

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



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..... External diameter { Plate..... Thickness { No. of threads per inch  
 Stay.....  
 Pitch of tubes..... Manhole compensation: Size of opening in  
 shell plate..... Section of compensating ring..... No. of rivets and diameter of rivet holes.....  
 Outer row rivet pitch at ends..... Depth of flange if manhole flanged..... Steam Dome: Material.....  
 Tensile strength..... Thickness of shell..... Description of longitudinal joint.....  
 Diameter of rivet holes..... Pitch of rivets..... Percentage of strength of joint { Plate.....  
 Rivets.....  
 Internal diameter..... Thickness of crown..... No. and diameter of  
 stays..... Inner radius of crown.....  
 How connected to shell..... 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 tested by hy  
 tubes..... forgings and castings..... and after assembly in place..... Are drain cocks  
 valves fitted to free the superheater from water where necessary.....

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Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with. **Yes**

The foregoing is a correct description,

Manufacture

Dates of Survey while building { During progress of work in shops - - }  
 { During erection on board vessel - - - } 15.1.59 - 4.9.59.  
 Are the approved plans of boiler and superheater forwarded herewith. **London 29.6.57.**  
 (If not state date of approval.)  
 Total No. of visits **3**

Is this Boiler a duplicate of a previous case. **Yes** If so, state Vessel's name and Report No. **"PAMIR" Got.rpt. No. 24096.**  
**"ALDAN" Got.rpt. No. 24200.**

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)

This donkey boiler has been fitted onboard in accordance with the Rules and to my satisfaction. The workman  
 ship is good. Safety valves adjusted under steam, and accumulation pressure test carried out with satisfactory results.

Survey Fee ... .. £ No charge. } When applied for.....19.....  
 Travelling Expenses (if any) £ : : } When received.....19.....

*[Signature]*  
 Engineer Surveyor to Lloyd's Register of Shipping.

FRIDAY, 11 DEC 1959

Committee's Minute.....

Assigned **656119082** See Rpt-1.....

