

# REPORT ON BOILERS.

Received at London Office. 22 FEB 1956

Date of writing Report 7th Feb., 1956 When handed in at Local Office 20th Febr., 1956 Port of Gothenburg

No. in Reg. Book. Survey held at Gothenburg Date, First Survey 19th Nov., 55. Last Survey 8th February, 1956

34885 on the Motorship "A R J E P L O G" (Number of Visits 12) Tons {Gross 10805 Net 5566}

Built at Gothenburg By whom built AB. Götaverken Yard No. 711 When built 1955-56.

Engines made at Gothenburg By whom made AB. Götaverken Engine No. 2878 When made 1955-56

Boilers made at Annan, Scotland By whom made Messrs. Cochran & Co. Boiler No. 20256 When made 1955

MN as per Rule 1000 Owners Trafik AB. Grängesberg-Oxelösund Port belonging to Stockholm

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

Manufacturers of Steel

Total Heating Surface of Boilers Of Superheaters

Total for Register Book Is forced draught fitted No. Coal or Oil fired Oil fired

No. and Description of Boilers One vertical Cochran boiler Working Pressure 100 lbs.

Tested by hydraulic pressure to 200 lbs. Date of test 18.8.1955. No. of Certificate 24499 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

Area of each set of valves per boiler per Rule 9.8 sq." Pressure to which they are adjusted 85 lbs. Are they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No main boiler

Smallest distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers Boiler on a platform aft

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

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

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

been complied with Thickness Are the shell plates welded or flanged Description of riveting: circ. seams

long. seams Diameter of rivet holes in circ. 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

Tube plates: Material front back Tensile strength Thickness

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

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

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

in 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

Front plate at bottom: Material Tensile strength

Thickness Lower back plate: Material Tensile strength Thickness

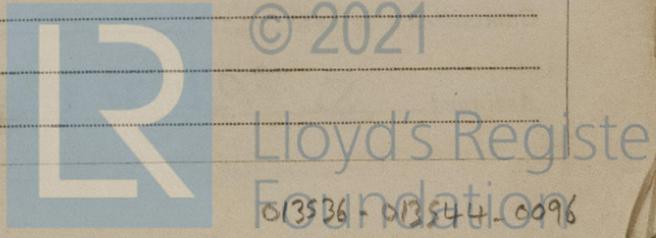
Pitch of stays at wide water space Are stays fitted with nuts or riveted over

Main stays: Material Tensile strength

Diameter At body of stay or Over threads No. of threads per inch

Screw stays: Material Tensile strength

Diameter 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 { Plain..... 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:  
 tubes..... forgings and castings..... and after assembly in place..... Are drain cocks or  
 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,  
 AKTIEROLLAGET GÖTAVÄRKEN J. Hakansson Manufacturer.

Dates of Survey while building { During progress of work in shops - - - } Are the approved plans of boiler and superheater forwarded herewith - - -  
 (If not state date of approval.)  
 { During erection on board vessel - - - } 19.11.55. - 8.2.56. Total No. of visits 12

Is this Boiler a duplicate of a previous case..... Yes..... If so, state Vessel's name and Report No. m/s "ABISKO" Gothenburg FE report 22050

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) The DB has been securely fitted onboard under my inspection and to my satisfaction and the safety valves adjusted under steam to 85 lbs/sq.inch. The boiler has been built under Special Survey as per Glasgow Certificate No.24499 photostat copy of which is attached. A combined silencer and exhaust gas economiser of AB Götaverken's multitubular type has also been fitted onboard. The economiser has been built under Special Survey in accordance with the Rules and approved plans, tested hydraulically to 12 kg/cm<sup>2</sup> on the 16th of November, 1955, and marked for identification purposes:-

No. 140  
 Lloyd's Test 12 kg.  
 WP 6"  
 BJ 16.11.1955. GV. No. 2928.

The safety valves have been adjusted under steam to 85 lbs/sq.inch. Certificate is attached.

**Note:**

The safety valves of the DB have been adjusted under steam to 85 lbs/sq.inch due to that the exhaust gas economiser was built for that pressure.

Survey Fee ... .. £ --- : --- : --- } When applied for..... 19---  
 Travelling Expenses (if any) £ --- : --- : --- } When received..... 19---

*Arvid Laurin*  
 Engineer Surveyor to Lloyd's Register of Shipping.

TUESDAY 20 MAR 1956

Committee's Minute.....

Assigned *Sec Rpt. 46.*



Date of  
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 Reg.  
 Built  
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The Surveyors are requested not to write on or below the space for Committee's Minute.