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Rpt. On

REPORT ON BOILERS.

No 2083

Report at London Office

26 JUN 1942

Date of writing Report 10th June, 1942. When handed in at Local Office 11th June, 1942. Port of **Mahrö**
Name of Ship **Mahrö** Date, First Survey 30th April, 1941 Last Survey 4th June, 1942.
No. in Survey held at **Mahrö** (Number of Visits 21.) Gross Tons {
Reg. Book. **Mahrö** **"BRALI"** Net {
Builder **Mahrö** By whom built **Kochmann Mch. V. G. B.** Yard No. 213 When built
Engine made at **Mahrö** By whom made **Kochmann Mch. V. G. B.** Engine No. 233 When made
Boilers made at **Mahrö** By whom made **Kochmann Mch. V. G. B.** Boiler No. 986/57 When made
Nominal Horse Power 1556 Owners **M. G. Mill, Oslo** Port belonging to **Oslo**

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel **Messrs. Vithornis Mimer Steel & Ironworks Corp., Vithornis** Letter for Record **S.**
Total Heating Surface of Boilers **2 x 150 = 300 m².** Is forced draught fitted **Yes** Coal or Oil fired **Oil**
No. and Description of Boilers **Two 1.00.** Working Pressure **180 lbs./sq. in.**
Tested by hydraulic pressure to **320 lbs./sq. in.** Date of test **9.8.1941** No. of Certificate **100 & 101** Can each boiler be worked separately **Yes**
Area of Firegrate in each Boiler **✓** No. and Description of safety valves to each boiler **2. Direct spring loaded.**
Area of each set of valves per boiler **per litre 6060 mm².** Pressure to which they are adjusted **Not adjusted.** Are they fitted with easing gear **Yes**
In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler **Yes**
Smallest distance between boilers or uptakes and bunnies or woodwork **Boilers placed on a platform 100 mm above end of eng. room.** Is oil fuel carried in the double bottom under boilers **✓**
Smallest distance between shell of boiler and tank top plating **✓** Is the bottom of the boiler insulated **Yes**
Largest internal dia. of boilers **2700 mm.** Length **3500 mm.** Shell plates: Material **Steel** Tensile strength **462.478 kg./mm².**
Thickness **26 mm.** Are the shell plates welded or flanged **No** Description of riveting: circ. seams **end 104.4 mm.**
long. seams **T.R. D.B.S.** Diameter of rivet holes in **circ. seams 39 mm.** Pitch of rivets **202 mm.**
Percentage of strength of circ. end seams **plate 69.9 %** Percentage of strength of circ. intermediate seam **plate 84.1 %**
Percentage of strength of longitudinal joint **plate 93.1 %** Working pressure of shell by Rules **13.3 kg./mm².**
Thickness of butt straps **outer 20 mm.** No. and Description of Furnaces in each Boiler **Two corrugated.**
Material **Steel.** Tensile strength **430-446.2 kg./mm².** Smallest outside diameter **1128 mm.**
Length of plain part **top 17.10.41** Thickness of plates **14 mm.** Description of longitudinal joint **Welded.**
Dimensions of stiffening rings on furnace or e.c. bottom **✓** Working pressure of furnace by Rules **12.65 kg./mm².**
End plates in steam space: Material **Steel** Tensile strength **430-447 kg./mm².** Thickness **26 mm.** Pitch of stays **400 x 400 mm.**
How are stays secured **Abt. nuts and washers.** Working pressure by Rules **16.8 kg./mm².**
Tube plates: Material **Steel.** Tensile strength **430-442 kg./mm².** Thickness **26 mm.**
Mean pitch of stay tubes in nests **249 mm.** Pitch across wide water spaces **300 mm.** Working pressure **from 23.2 kg./mm² back 19.9 "**
Girders to combustion chamber tops: Material **Steel** Tensile strength **47.7 kg./mm².** Depth and thickness of girder
at centre **2 (185 x 20) mm.** Length as per Rule **730.5 mm.** Distance apart **215 mm.** No. and pitch of stays
in each **2 - 220 mm.** Working pressure by Rules **15.4 kg./mm².** Combustion chamber plates: Material **Steel**
Tensile strength **45.2-46.6 kg./mm².** Thickness: Sides **18.5 mm.** Back **17.5 mm.** Top **18.5 mm.** Bottom **18.5 mm.**
Pitch of stays to tubes: Sides **190 x 220 mm.** Back **190 x 190 mm.** Top **215 x 220 mm.** Are stays fitted with nuts or riveted over **Both.**
Working pressure by Rules **12.65 kg./mm².** Front plate at bottom: Material **Steel** Tensile strength **430-442 kg./mm².**
Thickness **26 mm.** Lower back plate: Material **Steel** Tensile strength **432-447 kg./mm².** Thickness **26 mm.**
Pitch of stays at wide water space **190 x 330 mm.** Are stays fitted with nuts or riveted over **Nuts.**
Working Pressure **27.1 kg./mm².** Main stays: Material **Steel** Tensile strength **44-55 kg./mm².**
Diameter: At top of stay **2 5/8" & 2 7/8"** No. of threads per inch **6** Area supported by each stay **17200 mm².**
Over threads **13.1 kg./mm².** screw stays: Material **Steel** Tensile strength **41-49 kg./mm².**
Working pressure by Rules **13.1 kg./mm².** No. of threads per inch **9** Area supported by each stay **36100 mm².**
At turned off part **1 3/8" - 1 3/4"**

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Working pressure by Rules 18.65 kg. cm² the stays drilled at the outer ends Margin stays: Diameter { At turned off part, 1 7/8" & 1 3/4" Over threads }
 No. of threads per inch 9 Area supported by each stay 49400 mm² Working pressure by Rules 13.9 kg. cm²
 Tubes: Material Steel External diameter { Plate 2 1/2" Stay 2 1/2" } Thickness 3.65 mm No. of threads per inch 9
 Pitch of tubes 90 = 93 mm Working pressure by Rules 16 kg. cm² Manhole compensation: Size of opening in shell plate 416 = 516 mm Section of compensating ring 16750 mm² No. of rivets and diameter of rivet holes 48 - 28.5 mm
 Outer row rivet pitch at ends 200 mm Depth of flange if manhole flanged 92 mm 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 Working pressure by Rules Thickness of crown No. and diameter of stays
 Inner radius of crown Working pressure by Rules
 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 Manufacturer 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 casing gear Working pressure as per Rules
 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
 The foregoing is a correct description, Manufacture

Dates of Survey { During progress of work in shops - - - 22.4.41, 25.4.41, 28.4.41, 30.4.41, 1.5.41, 3.5.41, 5.5.41, 7.5.41, 9.5.41, 11.5.41, 13.5.41, 15.5.41, 17.5.41, 19.5.41, 21.5.41, 23.5.41, 25.5.41, 27.5.41, 29.5.41, 31.5.41, 2.6.41, 4.6.41, 6.6.41, 8.6.41, 10.6.41, 12.6.41, 14.6.41, 16.6.41, 18.6.41, 20.6.41, 22.6.41, 24.6.41, 26.6.41, 28.6.41, 30.6.41, 2.7.41, 4.7.41, 6.7.41, 8.7.41, 10.7.41, 12.7.41, 14.7.41, 16.7.41, 18.7.41, 20.7.41, 22.7.41, 24.7.41, 26.7.41, 28.7.41, 30.7.41, 1.8.41, 3.8.41, 5.8.41, 7.8.41, 9.8.41, 11.8.41, 13.8.41, 15.8.41, 17.8.41, 19.8.41, 21.8.41, 23.8.41, 25.8.41, 27.8.41, 29.8.41, 31.8.41, 2.9.41, 4.9.41, 6.9.41, 8.9.41, 10.9.41, 12.9.41, 14.9.41, 16.9.41, 18.9.41, 20.9.41, 22.9.41, 24.9.41, 26.9.41, 28.9.41, 30.9.41, 2.10.41, 4.10.41, 6.10.41, 8.10.41, 10.10.41, 12.10.41, 14.10.41, 16.10.41, 18.10.41, 20.10.41, 22.10.41, 24.10.41, 26.10.41, 28.10.41, 30.10.41, 1.11.41, 3.11.41, 5.11.41, 7.11.41, 9.11.41, 11.11.41, 13.11.41, 15.11.41, 17.11.41, 19.11.41, 21.11.41, 23.11.41, 25.11.41, 27.11.41, 29.11.41, 1.12.41, 3.12.41, 5.12.41, 7.12.41, 9.12.41, 11.12.41, 13.12.41, 15.12.41, 17.12.41, 19.12.41, 21.12.41, 23.12.41, 25.12.41, 27.12.41, 29.12.41, 31.12.41, 2.1.42, 4.1.42, 6.1.42, 8.1.42, 10.1.42, 12.1.42, 14.1.42, 16.1.42, 18.1.42, 20.1.42, 22.1.42, 24.1.42, 26.1.42, 28.1.42, 30.1.42, 1.2.42, 3.2.42, 5.2.42, 7.2.42, 9.2.42, 11.2.42, 13.2.42, 15.2.42, 17.2.42, 19.2.42, 21.2.42, 23.2.42, 25.2.42, 27.2.42, 29.2.42, 31.2.42, 2.3.42, 4.3.42, 6.3.42, 8.3.42, 10.3.42, 12.3.42, 14.3.42, 16.3.42, 18.3.42, 20.3.42, 22.3.42, 24.3.42, 26.3.42, 28.3.42, 30.3.42, 1.4.42, 3.4.42, 5.4.42, 7.4.42, 9.4.42, 11.4.42, 13.4.42, 15.4.42, 17.4.42, 19.4.42, 21.4.42, 23.4.42, 25.4.42, 27.4.42, 29.4.42, 31.4.42, 2.5.42, 4.5.42, 6.5.42, 8.5.42, 10.5.42, 12.5.42, 14.5.42, 16.5.42, 18.5.42, 20.5.42, 22.5.42, 24.5.42, 26.5.42, 28.5.42, 30.5.42, 1.6.42, 3.6.42, 5.6.42, 7.6.42, 9.6.42, 11.6.42, 13.6.42, 15.6.42, 17.6.42, 19.6.42, 21.6.42, 23.6.42, 25.6.42, 27.6.42, 29.6.42, 31.6.42, 2.7.42, 4.7.42, 6.7.42, 8.7.42, 10.7.42, 12.7.42, 14.7.42, 16.7.42, 18.7.42, 20.7.42, 22.7.42, 24.7.42, 26.7.42, 28.7.42, 30.7.42, 1.8.42, 3.8.42, 5.8.42, 7.8.42, 9.8.42, 11.8.42, 13.8.42, 15.8.42, 17.8.42, 19.8.42, 21.8.42, 23.8.42, 25.8.42, 27.8.42, 29.8.42, 31.8.42, 2.9.42, 4.9.42, 6.9.42, 8.9.42, 10.9.42, 12.9.42, 14.9.42, 16.9.42, 18.9.42, 20.9.42, 22.9.42, 24.9.42, 26.9.42, 28.9.42, 30.9.42, 1.10.42, 3.10.42, 5.10.42, 7.10.42, 9.10.42, 11.10.42, 13.10.42, 15.10.42, 17.10.42, 19.10.42, 21.10.42, 23.10.42, 25.10.42, 27.10.42, 29.10.42, 31.10.42, 2.11.42, 4.11.42, 6.11.42, 8.11.42, 10.11.42, 12.11.42, 14.11.42, 16.11.42, 18.11.42, 20.11.42, 22.11.42, 24.11.42, 26.11.42, 28.11.42, 30.11.42, 1.12.42, 3.12.42, 5.12.42, 7.12.42, 9.12.42, 11.12.42, 13.12.42, 15.12.42, 17.12.42, 19.12.42, 21.12.42, 23.12.42, 25.12.42, 27.12.42, 29.12.42, 31.12.42, 2.1.43, 4.1.43, 6.1.43, 8.1.43, 10.1.43, 12.1.43, 14.1.43, 16.1.43, 18.1.43, 20.1.43, 22.1.43, 24.1.43, 26.1.43, 28.1.43, 30.1.43, 1.2.43, 3.2.43, 5.2.43, 7.2.43, 9.2.43, 11.2.43, 13.2.43, 15.2.43, 17.2.43, 19.2.43, 21.2.43, 23.2.43, 25.2.43, 27.2.43, 29.2.43, 31.2.43, 2.3.43, 4.3.43, 6.3.43, 8.3.43, 10.3.43, 12.3.43, 14.3.43, 16.3.43, 18.3.43, 20.3.43, 22.3.43, 24.3.43, 26.3.43, 28.3.43, 30.3.43, 1.4.43, 3.4.43, 5.4.43, 7.4.43, 9.4.43, 11.4.43, 13.4.43, 15.4.43, 17.4.43, 19.4.43, 21.4.43, 23.4.43, 25.4.43, 27.4.43, 29.4.43, 31.4.43, 2.5.43, 4.5.43, 6.5.43, 8.5.43, 10.5.43, 12.5.43, 14.5.43, 16.5.43, 18.5.43, 20.5.43, 22.5.43, 24.5.43, 26.5.43, 28.5.43, 30.5.43, 1.6.43, 3.6.43, 5.6.43, 7.6.43, 9.6.43, 11.6.43, 13.6.43, 15.6.43, 17.6.43, 19.6.43, 21.6.43, 23.6.43, 25.6.43, 27.6.43, 29.6.43, 31.6.43, 2.7.43, 4.7.43, 6.7.43, 8.7.43, 10.7.43, 12.7.43, 14.7.43, 16.7.43, 18.7.43, 20.7.43, 22.7.43, 24.7.43, 26.7.43, 28.7.43, 30.7.43, 1.8.43, 3.8.43, 5.8.43, 7.8.43, 9.8.43, 11.8.43, 13.8.43, 15.8.43, 17.8.43, 19.8.43, 21.8.43, 23.8.43, 25.8.43, 27.8.43, 29.8.43, 31.8.43, 2.9.43, 4.9.43, 6.9.43, 8.9.43, 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11.4.44, 13.4.44, 15.4.44, 17.4.44, 19.4.44, 21.4.44, 23.4.44, 25.4.44, 27.4.44, 29.4.44, 31.4.44, 2.5.44, 4.5.44, 6.5.44, 8.5.44, 10.5.44, 12.5.44, 14.5.44, 16.5.44, 18.5.44, 20.5.44, 22.5.44, 24.5.44, 26.5.44, 28.5.44, 30.5.44, 1.6.44, 3.6.44, 5.6.44, 7.6.44, 9.6.44, 11.6.44, 13.6.44, 15.6.44, 17.6.44, 19.6.44, 21.6.44, 23.6.44, 25.6.44, 27.6.44, 29.6.44, 31.6.44, 2.7.44, 4.7.44, 6.7.44, 8.7.44, 10.7.44, 12.7.44, 14.7.44, 16.7.44, 18.7.44, 20.7.44, 22.7.44, 24.7.44, 26.7.44, 28.7.44, 30.7.44, 1.8.44, 3.8.44, 5.8.44, 7.8.44, 9.8.44, 11.8.44, 13.8.44, 15.8.44, 17.8.44, 19.8.44, 21.8.44, 23.8.44, 25.8.44, 27.8.44, 29.8.44, 31.8.44, 2.9.44, 4.9.44, 6.9.44, 8.9.44, 10.9.44, 12.9.44, 14.9.44, 16.9.44, 18.9.44, 20.9.44, 22.9.44, 24.9.44, 26.9.44, 28.9.44, 30.9.44, 1.10.44, 3.10.44, 5.10.44, 7.10.44, 9.10.44, 11.10.44, 13.10.44, 15.10.44, 17.10.44, 19.10.44, 21.10.44, 23.10.44, 25.10.44, 27.10.44, 29.10.44, 31.10.44, 2.11.44, 4.11.44, 6.11.44, 8.11.44, 10.11.44, 12.11.44, 14.11.44, 16.11.44, 18.11.44, 20.11.44, 22.11.44, 24.11.44, 26.11.44, 28.11.44, 30.11.44, 1.12.44, 3.12.44, 5.12.44, 7.12.44, 9.12.44, 11.12.44, 13.12.44, 15.12.44, 17.12.44, 19.12.44, 21.12.44, 23.12.44, 25.12.44, 27.12.44, 29.12.44, 31.12.44, 2.1.45, 4.1.45, 6.1.45, 8.1.45, 10.1.45, 12.1.45, 14.1.45, 16.1.45, 18.1.45, 20.1.45, 22.1.45, 24.1.45, 26.1.45, 28.1.45, 30.1.45, 1.2.45, 3.2.45, 5.2.45, 7.2.45, 9.2.45, 11.2.45, 13.2.45, 15.2.45, 17.2.45, 19.2.45, 21.2.45, 23.2.45, 25.2.45, 27.2.45, 29.2.45, 31.2.45, 2.3.45, 4.3.45, 6.3.45, 8.3.45, 10.3.45, 12.3.45, 14.3.45, 16.3.45, 18.3.45, 20.3.45, 22.3.45, 24.3.45, 26.3.45, 28.3.45, 30.3.45, 1.4.45, 3.4.45, 5.4.45, 7.4.45, 9.4.45, 11.4.45, 13.4.45, 15.4.45, 17.4.45, 19.4.45, 21.4.45, 23.4.45, 25.4.45, 27.4.45, 29.4.45, 31.4.45, 2.5.45, 4.5.45, 6.5.45, 8.5.45, 10.5.45, 12.5.45, 14.5.45, 16.5.45, 18.5.45, 20.5.45, 22.5.45, 24.5.45, 26.5.45, 28.5.45, 30.5.45, 1.6.45, 3.6.45, 5.6.45, 7.6.45, 9.6.45, 11.6.45, 13.6.45, 15.6.45, 17.6.45, 19.6.45, 21.6.45, 23.6.45, 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