

REPORT ON BOILERS.

No. 12932

MAY 20 1940

Received at London Office

Date of writing 14th April 40 When handed in at Local Office 19th April 40 Port of **GOTHENBURG**
No. in Survey held at **GOTHENBURG** Date, First Survey 17th November 1939 Last Survey 29th March 1940
UPPL. No 13 M/S **VARDEFJELL** (Number of Visits 16) Gross 8315.99
1519 on the Tons Net 4938.99
Master **✓** Built at **GOTHENBURG** By whom built **ERIKSBERGS M.V.A.B.** Yard No. 292 When built 1940
Engines made at **GOTHENBURG** By whom made **ERIKSBERGS M.V.A.B.** Engine No. 234 When made 1940
Boilers made at **GOTHENBURG** By whom made **ERIKSBERGS M.V.A.B.** Boiler No. 808 When made 1940
Nominal Horse Power 644 Owners **A/S FILEFJELL** Port belonging to **OSLO**

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel **Messrs. Ruhstahl A.G. Haltingen** (Letter for Record **S**)
Total Heating Surface of Boilers **2 x 130 m² = 260 m²** Is forced draught fitted **Yes** Coal or Oil fired **Oil fired, 2nd**
No. and Description of Boilers **Two cylindrical, multitubular.** Working Pressure **142 lbs/sq. in.**
Tested by hydraulic pressure to **265 lbs/sq. in.** Date of test **14.12.39.** No. of Certificate **333 & 334** Can each boiler be worked separately **Yes**
Area of Firegrate in each Boiler **✓** No. and Description of safety valves to each boiler **Two double spring loaded.**
No. of each set of valves per boiler { per Rule **67.5 mm** Pressure to which they are adjusted **142 lbs** Are they fitted with easing gear **Yes**
as fitted **85 mm**
In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler **No main boilers**
Smallest distance between boilers or uptakes and **AP-bulkhead** **900 mm** Is oil fuel carried in the double bottom under boilers **No**
Smallest distance between shell of boiler and tank top plating **✓** Is the bottom of the boiler insulated **Yes**
Largest internal dia. of boilers **3352 mm** Length **3350 mm** Shell plates: Material **SM-steel** Tensile strength **44-50 kg/mm²**
Thickness **19 mm** Are the shell plates welded or flanged **No** Description of riveting: circ. seams **Double riv. Lap.**
Long. seams **Double butt straps** Diameter of rivet holes in { circ. seams **26.5 mm** Pitch of rivets { **79 mm**
long. seams **24 mm** **145 mm**
Percentage of strength of circ. end seams { plate **66.5** Percentage of strength of circ. intermediate seam { plate **83.5**
rivets **57.0** rivets **100**
combined **✓** Working pressure of shell by Rules **142.5 lbs/sq. in.**
Thickness of butt straps { outer **14.5 mm** No. and Description of Furnaces in each Boiler **Two, Morison**
inner **17.5 mm** Tensile strength **41-47 kg/mm²** Smallest outside diameter **920 mm**
Material **SM-steel** Thickness of plates { crown **10 mm** Description of longitudinal joint **Lap welded**
bottom **10 mm** Working pressure of furnace by Rules **153 lbs/sq. in.**
Dimensions of stiffening rings on furnace or c.c. bottom **✓** Working pressure of furnace by Rules **153 lbs/sq. in.**
End plates in steam space: Material **SM-steel** Tensile strength **41-47 kg/mm²** Thickness **20 mm** Pitch of stays **405 x 350 mm**
How are stays secured **Nuts inside, riveted washers and nuts outside.** Working pressure by Rules **148 lbs/sq. in.**
End plates: Material { front **SM-steel** Tensile strength **41-47 kg/mm²** Thickness { **20 mm**
back **SM-steel** **21 mm**
Pitch of stay tubes in nests **276 mm** Pitch across wide water spaces **330 mm** Working pressure { front **180 lbs/sq. in.**
back **200 lbs/sq. in.**
Orders to combustion chamber tops: Material **SM-steel** Tensile strength **44-50 kg/mm²** Depth and thickness of girder
centre **175 & 2 x 16 mm** Length as per Rule **735 mm** Distance apart **205 mm** No. and pitch of stays
each **2, 225 mm** Working pressure by Rules **155 lbs/sq. in.** Combustion chamber plates: Material **SM-steel**
Tensile strength **41-47 kg/mm²** Thickness: Sides **16 mm** Back **18 mm** Top **16 mm** Bottom **16 mm**
Pitch of stays to ditto: Sides **225 & 240 mm** Back **241-212 mm** Top **205 x 225 mm** Are stays fitted with nuts or riveted over **Both**
Working pressure by Rules **145 lbs/sq. in.** Front plate at bottom: Material **SM-steel** Tensile strength **41-47 kg/mm²**
Thickness **20 mm** Lower back plate: Material **SM-steel** Tensile strength **41-47 kg/mm²** Thickness **20 mm**
Pitch of stays at wide water space **320 mm** Are stays fitted with nuts or riveted over **Fitted with nuts**
Working Pressure **200 lbs/sq. in.** Main stays: Material **SM-steel** Tensile strength **As per Rule**
At body of stay, **57 mm** No. of threads per inch **6** Area supported by each stay **142500 mm²**
Over threads **155 lbs/sq. in.** Screw stays: Material **SM-steel** Tensile strength **As per Rule**
At turned off part, **38 mm** No. of threads per inch **9** Area supported by each stay **54250 mm²**
Over threads

