

# REPORT ON BOILERS.

No. 1181 C.

Received at London Office JUN 15 1938

Date of writing Report 10-6, 1938 When handed in at Local Office 10-6 1938 Port of Helsingborg

No. in Survey held at Landskrona Date, First Survey 16-12, 1937 Last Survey 19-5, 1938  
Reg. Book 39222 on the m/s "MORVIKEN" (Number of Visits 3) Gross 5008 Tons Net 2987

Built at Landskrona By whom built Ceresundsvarvet A/B Yard No. 49 When built 1938  
Engines made at Stockholm By whom made A/B Atlas-Diesel Engine Nos. 85599/600/601/602 When made 1938  
Boilers made at Halifax By whom made Lumbys Ltd Boiler No. 5710 When made 1937  
Owners A/S Wallem & Co. Port belonging to Bergen

## VERTICAL DONKEY BOILER.

Made at Halifax By whom made Lumbys Ltd Boiler No. 5710 When made 1937 Where fixed Landskrona  
Manufacturers of Steel

Total Heating Surface of Boiler Is forced draught fitted No Coal or Oil fired Oil fired

No. and Description of Boilers One vertical cross tube Donkey boiler. Working pressure 85 lbs/sq

Tested by hydraulic pressure to Date of test No. of Certificate 91

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler Double 2" spring loaded

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

State whether steam from main boilers can enter the donkey boiler No main boiler Smallest distance between boiler or uptake and bunkers or woodwork

Is oil fuel carried in the double bottom under boiler Yes Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated No Largest internal dia. of boiler Height

Shell plates: Material Tensile strength Thickness

Are the shell plates welded or flanged Description of riveting: circ. seams { end inter. long. seams

Dia. of rivet holes in { circ. seams long. seams Pitch of rivets Percentage of strength of circ. seams { plate rivets of Longitudinal joint { plate rivets combined

Working pressure of shell by rules Thickness of butt straps { outer inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Material

Tensile strength Thickness Radius Working pressure by rules

Description of Furnace: Plain, spherical, or dished crown Material Tensile strength

Thickness External diameter { top bottom Length as per rule Working pressure by rules

Pitch of support stays circumferentially and vertically Are stays fitted with nuts or riveted over

Diameter of stays over thread Radius of spherical or dished furnace crown Working pressure by rule

Thickness of Ogee Ring Diameter as per rule { D a Working pressure by rule

Combustion Chamber: Material Tensile strength Thickness of top plate

Radius if dished Working pressure by rule Thickness of back plate Diameter if circular

Length as per rule Pitch of stays Are stays fitted with nuts or riveted over

Diameter of stays over thread Working pressure of back plate by rules

Tube Plates: Material { front back Tensile strength Thickness Mean pitch of stay tubes in nests

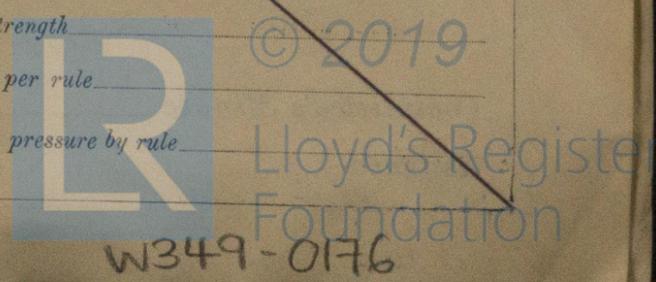
If comprising shell, Dia. as per rule { front back Pitch in outer vertical rows { stay plain Dia. of tube holes FRONT { stay plain BACK { stay plain

Is each alternate tube in outer vertical rows a stay tube Working pressure by rules { front back

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 Working pressure by rule



**Crown stays:** Material \_\_\_\_\_ Tensile strength \_\_\_\_\_ Diameter { at body of stay, or over threads. \_\_\_\_\_  
 No. of threads per inch \_\_\_\_\_ Area supported by each stay \_\_\_\_\_ Working pressure by rules \_\_\_\_\_  
**Screw stays:** Material \_\_\_\_\_ Tensile strength \_\_\_\_\_ Diameter { at turned off part, or over threads. \_\_\_\_\_ No. of threads per inch \_\_\_\_\_  
 Area supported by each stay \_\_\_\_\_ Working pressure by rules \_\_\_\_\_ Are the stays drilled at the outer ends \_\_\_\_\_  
**Tubes:** Material \_\_\_\_\_ External diameter { plain \_\_\_\_\_ stay \_\_\_\_\_ Thickness { \_\_\_\_\_  
 No. of threads per inch \_\_\_\_\_ Pitch of tubes \_\_\_\_\_ Working pressure by rules \_\_\_\_\_  
**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 \_\_\_\_\_  
**Uptake:** External diameter \_\_\_\_\_ Thickness of uptake plate \_\_\_\_\_  
**Cross Tubes:** No. \_\_\_\_\_ External diameters { \_\_\_\_\_ Thickness of plates \_\_\_\_\_

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

The foregoing is a correct description,

**ÖRESUNDSVARVET**

AKTIEBOLAG

Manufacturers

*L. A. R. Idell*

Dates of Survey { During progress of work in shops - - }  Is the approved plan of boiler forwarded herewith (If not state date of approval.)   
 while building { During erection on board vessel - - } *16/12, 1937 23/3 19/5, 1938* Total No. of visits *3*

Is this Boiler a duplicate of a previous case *Yes*. If so, state Vessel's name and Report No. *1/2 Dagmar Salen; No. 1110*

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) *This donkey boiler has been built under the usual conditions of Special Survey as per the Mch. Surveyors' report. The boiler has been installed on board and tested under my supervision and to my satisfaction. All the Rule requirements regarding boilers have been complied with, so far as applicable. The workmanship is good.*

*The safety valves has been adjusted under steam to 85 lbs/sq".*

*Boiler found marked:-*

No. 91  
 LLOYD'S TEST.  
 170 lbs  
 W.P. 85 lbs  
 G.R.C. 25.5.37

Survey Fee ... #  : ) When applied for,  10   
 Travelling Expenses (if any) £  : ) When received,  19

*P.O. Sjögren*

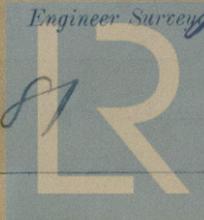
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 24 JUN 1938

Assigned

*See No. F.E. 1181*



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