

## 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 HelsingborgNo. in Survey held at Landskrona Date, First Survey 16-12, 1937 Last Survey 19-5, 1938

Reg. Book

39222 on the 12/5 "MORVIKEN"

(Number of Visits 3) Gross 5008 Tons Net 2987

Built at Landskrona By whom built Ceresundsvärdet AB Yard No. 49 When built 1938Engines made at Stockholm By whom made AB Atlas Diesel Engine Nos. 85599/600/601/602 When made 1938Boilers made at Halifax By whom made Lumbys Ltd Boiler No. 5710 When made 1937Owners AB 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 NoCoal or Oil fired Oil firedNo. 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

Pressure to which they are adjusted 85 lbs/sq

Are they fitted with easing gear YesState 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

long. seams

Dia. of rivet holes in

circ. seams

Pitch of rivets

Percentage of strength of circ. seams

plate

of Longitudinal joint

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

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

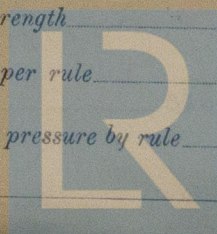
Depth and thickness of girder at centre

Length as per rule

Distance apart

No. and pitch of stays in each

Working pressure by rule



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**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

Dates of Survey { During progress of work in shops - - } *✓* Is the approved plan of boiler forwarded herewith *✓*  
 while building { During erection on board vessel - - } *16/12, 1937 23/3 19/5, 1938* (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. *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. in.*

*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, ... *✓* 19 *✓*  
 Travelling Expenses (if any) £ *✓* : When received, ... *✓* 19 *✓*

Committee's Minute

Assigned

FRI. 24 JUN 1938

*See Hg. F.E. 1181*

*P.O. Sjögren*

Engineer Surveilling to Lloyd's Register of Shipping.

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