

# REPORT ON BOILERS.

No. 620.

Received at London Office

23 DEC 1924

Date of writing Report 17<sup>th</sup> Dec. 1924 When handed in at Local Office 17<sup>th</sup> Dec. 1924 Port of *Malmo*.

No. in Survey held at *Helsingborg & Karlshamn* Date, First Survey 26<sup>th</sup> October 23 Last Survey 5<sup>th</sup> November 1924

Reg. Book. 88679 on the *Steel Motor vessel "EPOCA"* (Number of Visits 4) Tons { Gross 1025 Net 582

Master *Akties, Garrisken & Co* Built at *Karlshamn* By whom built *A.B. Karlshamns Skeppsvaer* When built 1924

Boiler made at *Helsingborg* By whom made *Helsingborgs Varp- & Svetsnings A.B.* When made 1923

Owners *Akties, Garrisken & Co* Port belonging to *Christiania*

**VERTICAL DONKEY BOILER** No. *One* Description *Vertical* Manufacturers of steel *Stensnas Jernvarke A.B. Helsingborg*

Made at *Helsingborg* By whom made *Helsingborgs Varp- & Svetsnings A.B.* When made 1923 Where fixed *Karlshamn* Working pressure 90 lbs.

Tested by hydraulic pressure to 180 lbs. Date of test *26/10/23* No. of Certificate *257* Fire grate area 12.56 sq. Description of safety valves *Spring loaded.*

No. of safety valves 2 Area of each 33.18 sq. in. Pressure to which they are adjusted 95 lbs. sq. in. If fitted with easing gear *Yes* If steam from main boilers can enter the donkey boiler *Yes*

Dia. of donkey boiler 17.50 in. Length 31.65 in. Material of shell plates *Steel* Thickness 9 in. Range of tensile strength *45,000 lbs. per sq. in.*

Descrip. of riveting long. seams *Dole riv. lap* Dia. of rivet holes 21 in. Whether punched or drilled *Yes* Pitch of rivets 65 in.

Thick. of plating 9.5 in. Per centage of strength of joint *85%* Rivets *Steel* Working pressure of shell by rules *90 lbs. per sq. in.* Thickness of shell crown plates 18 in.

Radius of do. 220 in. No. of Stays to do. 4 Dia. of stays 4.8 in. Diameter of furnace *of complicated form as per plan.* Top *18 in.* Bottom *18 in.* Length of furnace *31.65 in.*

Thickness of furnace plates 10 in. Description of joint *Single riv. lap* Working pressure of furnace by rules *90 lbs. per sq. in.* Thickness of furnace crown plates 16 in. Radius of do. *220 in.* Stayed by *tubes* Diameter of uptake 4.60 in. Thickness of uptake plates 10 in.

Thickness of water tubes *stay tubes 6 in.*

The foregoing is a correct description,  
*Helsingborgs Varp- & Svetsnings Aktiebolag* Manufacturer.

*[Signature]*

Is the approved plan of boiler forwarded herewith *yes.*

Dates of Survey while building

During progress of work in shops - -	26/10, 30/10 1923
During erection on board vessel - -	3/11, 5/11 1924.
Total No. of visits	4.

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This donkey boiler was built in 1922 under the supervision of the Bureau Veritas Surveyors and tested by these gentlemen to 180 lbs or sq. inch hydraulic pressure. The plan was approved as per Secretary's letter int. E of 24<sup>th</sup> Oct. 23.

The boiler has been examined throughout and found in good working condition. The scantlings have been compared with the plan and found in order. Workmanship good.

The stop valve is self closing.

The boiler has been fitted for burning oil fuel and the rule requirements for boilers fitted for burning oil fuel have been complied with, except the remaining requirements, as below.

Working pressure 90 lbs per square inch.

When the vessel left Karlshamn for Aalborg, Denmark, the following requirements remained to be complied with, viz.:- Controlling gear to be fitted to the fire extinguishing valve. Easing gear to be fitted to the safety valves. The safety valve waste steam pipe to be rearranged. Saw alls to be fitted in way of the oil fuel burners.

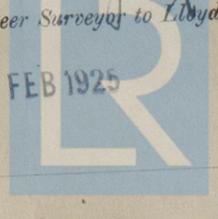
The Copenhagen Surveyors were informed accordingly. Please see Rpt H attached.

The following marks were found on the boiler:-

No. 87  
 Bureau Veritas.  
 W. Pressure 90 lbs.  
 Hydraulic P. 180 lbs.  
 H.L.S.B 25/10 22 C.G.H.

Survey Fee ... ..	4/6	: 100/-	When applied for, 17/2 1924
Travelling Expenses (if any) £	:	:	When received, 20/2 1924

*[Signature]*  
 Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register  
 Foundation

Committee's Minute  
 Assigned

TUES. 20 JAN 1925

FRI. 13 FEB 1925