

REPORT ON BOILERS.

No. 412.

3 JAN 1930 19 JUN 1930

Date of writing Report December 23rd 1929 When handed in at Local Office

Port of Sheffield.

No. in Reg. Book.

Survey held at Cradley Heath

Date, First Survey November 30thLast Survey December 21st 1929

(Number of Visits 3)

Gross 6654.93

Tons Net 4087.98

42562 on the ✓ *Steel Twin Screw Motor Vessel "THERMOPYLÆ"*

Master ✓

Built at ✓ Copenhagen

By whom built ✓ *akt Burmeister & Wain's Maskin og Skibsbyggeri.*

When built ✓ 1930

Boilers made at Cradley Heath

By whom made Cradley Boiler Co. Ltd.

When made 1929.

Owners ✓ *Lampskibsselskabet Den Norske Afrika og Australie Linie*Port belonging to ✓ *Sønsberg* Yard No. 17063.*1/3 Tankpart I, II, V, & VI. (Wilhelm Wilhelmsen)*

VERTICAL DONKEY BOILER— No. 1. Description *Vertical Cross Tube* Manufacturers of steel *Consett, Non Ld.*

Made at *Cradley Heath* By whom made *Cradley Boiler Co. Ltd.* When made *1929.* Where fixed *in engine room.* Working pressure *120 lbs.*

tested by hydraulic pressure to *230* Date of test *21/12/29.* No. of Certificate *511* Fire grate area *18.98 sq ft* Description of safety valves *Double Marine*

No. of safety valves *2.* Area of each *3.14* Pressure to which they are adjusted ✓ If fitted with easing gear *Yes* If steam from main boilers can enter the donkey boiler ✓

Dia. of donkey boiler *5" 6"* Length *12" 0"* Material of shell plates *Steel* Thickness *3/32"* Range of tensile strength *28/32* Descrip. of riveting long. seams *D.R. lap* Dia. of rivet holes *13/16"* Whether punched or drilled *Drilled* Pitch of rivets *2 1/2"*

Lap of plating *4 1/2"* Per centage of strength of joint *Rivets 72.8 Plates 67.5* Working pressure of shell by rules *128 lbs.* Thickness of shell crown plates *9/16"*

Radius of do. *5" 0"* No. of Stays to do. *6* ✓ Dia. of stays *1 1/2"* Diameter of furnace Top *4" 6 3/8"* Bottom *5" 0 1/8"* Length of furnace *2' 0"* *bottom Stays*

Thickness of furnace plates *9/16"* Description of joint *Welded* ✓ Working pressure of furnace by rules *127 lbs.* Thickness of furnace crown plates *5/8"* Radius of do. *4" 6"* Stayed by *6 Crown Stays* Diameter of uptake *18 1/4"* Thickness of uptake plates *5/8"*

Thickness of water tubes *3/8"*

The foregoing is a correct description,

William Manufacturer.

Dates of Survey while building

During progress of work in shops - *30/11/29. 11/12/29. 21/12/29*

During erection on board vessel - *28/4. 30/4. 2/5. 3/5. 16/5. 7/6. 19/6. 1930.*

Total No. of visits

Is the approved plan of boiler forwarded herewith *Yes*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This boiler has been built under special survey and to the approved plan. The materials have been tested in accordance with the rules and the workmanship is good.*

This boiler has been built to the Order of Mr. J. H. Lowes of Sunderland, and has been despatched to Jole for shipment to Messrs Burmeister & Wain, Copenhagen for their Yard No. 569.

Marked. No. 511.

LLOYD'S TEST.

230 LBS.

W.P. 120 "

R.W.F. 21/12/29.

This boiler has now been fitted on board the above vessel and connected complete to the requirements of the Rules and to our satisfaction.

a horizontal duplex feed pump, 90 x 60 x 90 mm and a feed injector have been fitted to the boiler.

Recommend the vessel to have notation of DB-120 lbs in the Register Book.

a. J. Fawcett.

SURVEYOR TO LLOYD'S

REGISTER OF SHIPPING

Copenhagen

Survey Fee ... £ 4 : 4

Travelling Expenses (if any) £ 2 : 10

When applied for, 19

When received, *January 1930*

according to London Letter C. 4 dated 13th January 1930.

R. W. Fawcett.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUE 1 JUL 1930*

Assigned *See F.E. Rpt.*

W1179-0222

Lloyd's Register

Foundation