

# REPORT ON BOILERS.

No. 380

SAT. 13 OCT. 1923

Received at London Office

Date of writing Report *9<sup>th</sup> Oct 1923* When handed in at Local Office *12<sup>th</sup> Oct 1923* Port of *Sheffield*  
 No. in Survey held at *Cradley* Date, First Survey *11<sup>th</sup> Sept 1923* Last Survey *9<sup>th</sup> Oct 1923*  
 No. in Reg. Book. *Donkey Boiler No 13868.* (Number of Visits) Gross Tons }  
 on the *Burkhead* By whom built *Cammell Laird 1895* When built  
 Boilers made at *Cradley.* By whom made *Cradley Boiler Co Ltd* When made *1923*  
 Port belonging to

**VERTICAL DONKEY BOILER** No. *13868* Description *Vertical Cross Tube* Manufacturers of steel *Colville*  
 Made at *Cradley* By whom made *Cradley Boiler Co* When made *1923* Where fixed Working pressure *80*  
 Tested by hydraulic pressure to *160* Date of test *9/10/23* No. of Certificate *474* Fire grate area *49.5 sq ft.* Description of safety valves *Spring loaded*  
 No. of safety valves *2* Area of each *3.4 sq in* Pressure to which they are adjusted *80 lbs* If fitted with easing gear *No* If steam from *main* boilers can  
 enter the donkey boiler *No* Dia. of donkey boiler *3'-0"* Length *7'-0"* Material of shell plates *Steel* Thickness *3/8"* Range of tensile  
 strength *28/32* Descrip. of riveting long. seams *Lap. Double Riv.* Dia. of rivet holes *1/16"* Whether punched or drilled *Drilled* Pitch of rivets *2 3/8"*  
 Kind of plating *3/8"* Per centage of strength of joint Rivets *68%* Working pressure of shell by rules *182 lbs* Thickness of shell crown plates *3/8"*  
 Diameter of do. *3'-0"* No. of Stays to do. *NONE* Dia. of stays *1/2"* Diameter of furnace Top *2'-2 1/4"* Bottom *2'-6"* Length of furnace *4'-1"*  
 Thickness of furnace plates *3/8"* Description of joint *held* Working pressure of furnace by rules *91 lbs* Thickness of furnace crown  
 plates *3/8"* Radius of do. *2'-3"* Stayed by *✓* Diameter of uptake *9"* Thickness of uptake plates *3/8"*  
 Thickness of water tubes *3/8" (2)*

The foregoing is a correct description,  
 CRADLEY BOILER CO LTD Manufacturer.  
*William Lee* Managing Director

Dates { During progress of work in shops - - } *Sep 11<sup>th</sup> 27<sup>th</sup> Oct 9<sup>th</sup>*  
 { During erection on board vessel - - }  
 Total No. of visits

Is the approved plan of boiler forwarded herewith *Yes* with Shf. Rpt. 381

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)

The boiler has been built under special survey in accordance with the approved plan. The workmanship & material is good. The boiler is being sent to Burkhead.  
 This boiler has now been fitted on board S.S. "LA MAREA" and is to be used for heating and galley purposes. It has been examined under steam and the safety valve adjusted to 80 lbs per sq inch. All found satisfactory. Size of compression under *1 1/32" FORD 3/8" AFT.*  
 The boiler has been fitted with an oil fuel installation in accordance with approved plan Secretary's letter E August 30, 1923 and the rule requirements. On completion the installation was examined and tested under full working conditions and found satisfactory in every respect. The boiler is eligible in our opinion to have notation "Fitted for oil fuel H-24, FP above 150° F."

*John Dykes - J.W. Leicester*  
*Liverpool*  
*H-24*

Survey Fee ... £ 4 : 4 : } When applied for, *23/10/23*  
 Travelling Expenses (if any) £ 1 : 4/6 : } When received, *23/10/23*

*Robert W. Chappell*  
 Engineer Surveyor to Lloyd's Register of Shipping.

- 8 APR 1924

*ZP*

Committee's Minute Assigned

