

## REPORT ON BOILERS.

No. 30018

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Date of writing Report 29/3 1911 When handed in at Local Office 22/4 1911 Port of Glasgow  
 No. in Survey held at Glasgow Date, First Survey 18<sup>th</sup> March Last Survey 27/3 1911  
 Reg. Book. Glasgow (Number of Visits) Gross 4999  
 on the Twin s/s "EDAVANA" Tons Net 2900  
 Master H.C. Jewrick Built at Whitwick By whom built Barclay Curle & Co. Ltd. When built 1911  
 Engines made at Glasgow By whom made Barclay Curle & Co. Ltd. when made 1911  
 Boilers made at Glasgow By whom made Barclay Curle & Co. Ltd. when made 1911  
 Registered Horse Power Owners British India Steam Navigation Co. Ltd. Port belonging to Glasgow.

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~ Manufacturers of Steel Steel Company of Scotland & D. Blair & Co.

(Letter for record S.) Total Heating Surface of Boilers 5783<sup>9</sup> Is forced draft fitted Yes No. and Description of Boilers two Single Ended Working Pressure 215 lbs. Tested by hydraulic pressure to 430 lbs. Date of test 29-12-10  
 No. of Certificate 10668 Can each boiler be worked separately yes Area of fire grate in each boiler 71.5<sup>4</sup> No. and Description of safety valves to each boiler double spring loaded Area of each valve 9.62<sup>0</sup> Pressure to which they are adjusted 220  
 Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler —  
 Smallest distance between boilers — and bunkers — 18" Mean dia. of boilers 15'-9" Length 12'-0"  
 Material of shell plates steel Thickness 15<sup>1</sup>/<sub>8</sub>" Range of tensile strength 30/34 tons Are the shell plates welded or flanged no  
 Descrip. of riveting: cir. seams T.R. long. seams T.R. D.B.S. Diameter of rivet holes in long. seams 15<sup>1</sup>/<sub>8</sub>" Pitch of rivets 10<sup>1</sup>/<sub>2</sub>"  
 Lap of plates or width of butt straps 23" Per centages of strength of longitudinal joint rivets 94.4 Working pressure of shell by rules 250 Size of manhole in shell 17"x13" Size of compensating ring 10"x15<sup>1</sup>/<sub>8</sub>" No. and Description of Furnaces in each boiler 4 horizontal corrugated Material steel Outside diameter 3'-7<sup>1</sup>/<sub>4</sub>" Length of plain part — Thickness of plates 5<sup>1</sup>/<sub>8</sub>"  
 Description of longitudinal joint weld No. of strengthening rings — Working pressure of furnace by the rules 232 Combustion chamber plates: Material steel Thickness: Sides 2<sup>1</sup>/<sub>2</sub>" Back 2<sup>1</sup>/<sub>2</sub>" Top 2<sup>1</sup>/<sub>2</sub>" Bottom 15<sup>1</sup>/<sub>8</sub>" Pitch of stays to ditto: Sides 7<sup>3</sup>/<sub>4</sub>"x8<sup>1</sup>/<sub>4</sub>" Back 7<sup>3</sup>/<sub>4</sub>"x9"  
 Top 8<sup>1</sup>/<sub>4</sub>"x8<sup>1</sup>/<sub>4</sub>" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 222 Material of stays steel Diameter at smallest part 1.73<sup>0</sup> Area supported by each stay 63.93<sup>0</sup> Working pressure by rules 216 End plates in steam space: Material steel Thickness 1<sup>1</sup>/<sub>4</sub>"  
 Pitch of stays 20"x15<sup>1</sup>/<sub>4</sub>" How are stays secured D. nuts Working pressure by rules 221 Material of stays steel Diameter at smallest part 7-24<sup>0</sup>  
 Area supported by each stay 305<sup>0</sup> Working pressure by rules 246 Material of Front plates at bottom steel Thickness 27<sup>1</sup>/<sub>32</sub>" Material of Lower back plate steel Thickness 29<sup>1</sup>/<sub>32</sub>" Greatest pitch of stays 14<sup>1</sup>/<sub>4</sub>"x7<sup>3</sup>/<sub>4</sub>" Working pressure of plate by rules 216 Diameter of tubes 2<sup>1</sup>/<sub>2</sub>"  
 Pitch of tubes 3<sup>3</sup>/<sub>4</sub>"x3<sup>5</sup>/<sub>8</sub>" Material of tube plates steel Thickness: Front 31<sup>1</sup>/<sub>32</sub>" Back 13<sup>1</sup>/<sub>16</sub>" Mean pitch of stays abt. 7<sup>3</sup>/<sub>4</sub>" Pitch across wide water spaces 13<sup>1</sup>/<sub>2</sub>" Working pressures by rules 224 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 10"x20<sup>3</sup>/<sub>4</sub>" Length as per rule 2'-10<sup>1</sup>/<sub>2</sub>" Distance apart 8<sup>1</sup>/<sub>2</sub>" Number and pitch of Stays in each 308<sup>1</sup>/<sub>4</sub>"  
 Working pressure by rules 224 Superheater or Steam chest: how connected to boiler None Can the superheater be shut off and the boiler worked separately — Diameter — Length — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet holes — Pitch of rivets — Working pressure of shell by rules — Diameter of flue — Material of flue plates — Thickness —  
 If stiffened with rings — Distance between rings — Working pressure by rules — End plates: Thickness — How stayed —  
 Working pressure of end plates — Area of safety valves to superheater — Are they fitted with easing gear —

The foregoing is a correct description,  
 FOR BARCLAY, CURLE & CO., LTD.

Manufacturer.

Dates of Survey { During progress of work in shops - - - }  
 while building { During erection on board vessel - - - }

See Machinery rpt.

Is the approved plan of boiler forwarded herewith

Yes. ✓

Total No. of visits

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

See Report on Machinery

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

H.C. Forster

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute 25 APR. 1911 Glasgow

Assigned See minute on accompanying machinery report.

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