

# REPORT ON BOILERS.

No. 34333

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Date of writing Report 1917 When handed in at Local Office 1917 Port of Glasgow  
 No. in Survey held at Glasgow Date, First Survey 22<sup>nd</sup> Feb. 1916 Last Survey 8<sup>th</sup> Dec. 1917  
 Reg. Book. J.S.S. "Margha" (Number of Visits 84) } Gross  
 on the J.S.S. "Margha" } Net  
 Master Built at Glasgow By whom built Barclay Curle & Co. (575) When built 1917  
 Engines made at Glasgow By whom made Barclay Curle & Co. (575) When made 1917  
 Boilers made at Glasgow By whom made Barclay Curle & Co. (575) When made 1917  
 Registered Horse Power Owners British India Steam Navigation Port belonging to

## MULTITUBULAR BOILERS—~~MAIN~~, AUXILIARY ~~OR DONKEY~~.—Manufacturers of Steel J. Colville Burns & Thompson Beardmore

(Letter for record (5)) Total Heating Surface of Boilers 1528<sup>sq</sup> ft Is forced draft fitted yes No. and Description of Boilers 1 Single ended Working Pressure 215 Tested by hydraulic pressure to 430 Date of test 23/10/16  
 No. of Certificate 13590 Can each boiler be worked separately Area of fire grate in each boiler 37.58<sup>sq</sup> ft No. and Description of safety valves to each boiler 1 pair direct spring Area of each valve 5.94 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 or uptakes and bunkers or woodwork 18 Mean dia. of boilers 12'-0" Length 11'-0"  
 Material of shell plates steel Thickness 1 5/16" Range of tensile strength 28532 Are the shell plates welded or flanged no  
 Descrip. of riveting: cir. seams double lap long. seams table butt Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 8 3/4"  
 Lay of plates or width of butt straps 19 1/2" Per centages of strength of longitudinal joint rivets 87.4 Working pressure of shell by plate 84.8  
 rules 246 Size of manhole in shell 16" x 12" Size of compensating ring 10 1/2" x 1 3/8" No. and Description of Furnaces in each boiler 2 Morrison Material steel Outside diameter 3-9 1/4" Length of plain part top Thickness of plates rown 21 bottom 32  
 Description of longitudinal joint welded No. of strengthening rings 20 Working pressure of furnace by the rules 236 Combustion chamber plates: Material steel Thickness: Sides 2 1/32" Back 2 1/32" Top 2 1/32" Bottom 1" Pitch of stays to ditto: Sides 7 3/4" x 8 1/4" Back 7 3/4" x 8 1/4"  
 Top 7 3/4" x 8 1/4" stays are fitted with nuts or riveted heads nuts Working pressure by rules 232 Material of stays steel Diameter at smallest part 1.73" Area supported by each stay 64" Working pressure by rules 216 End plates in steam space: Material steel Thickness 1 3/16"  
 Pitch of stays 16" x 16 1/2" How are stays secured 2 nuts Working pressure by rules 239 Material of stays steel Diameter at smallest part 6.67  
 Area supported by each stay 264" Working pressure by rules 262 Material of Front plates at bottom steel Thickness 3 1/32" Material of Lower back plate steel Thickness 29/32 Greatest pitch of stays 14 1/4" Working pressure of plate by rules 216 Diameter of tubes 2 1/2"  
 Pitch of tubes 3 3/4" x 3 3/8" Material of tube plates steel Thickness: Front 31/32" Back 13/16" Mean pitch of stays 7 3/8" Pitch across wide water spaces 13 1/2" Working pressures by rules 224 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 10 x 2 5/32 Length as per rule 2'-6 12/32 Distance apart 8 1/4" Number and pitch of Stays in each (3) 7 3/4"  
 Working pressure by rules 290 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

FOR BARCLAY, CURLE & CO., LTD. The foregoing is a correct description, Manufacturer. John Alexander Manager

Dates of Survey } During progress of work in shops - - }  
 while building } During erection on board vessel - - }  
 See accompanying Report  
 Is the approved plan of boiler forwarded herewith yes MAIN & AUX BLR. PLAN RETURNED 18-11-18  
 Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under Special Survey, the materials & workmanship are of good description, it has been well fitted on board.

Survey Fee ... £ : : When applied for, 191  
 Travelling Expenses (if any) £ : : When received, 191  
A. McKeand + Wm. H. Copeman  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW. 18 DEC. 1917.  
 Assigned See accompanying machinery report  
 Lloyd's Register Foundation  
 W1432-0073