

W 138-0113

Rpt. 5a.

# REPORT ON BOILERS.

No. 34669

Received at London Office WED. SEP. 4. 1918

Date of writing Report 1918 When handed in at Local Office 8/10/18 1918 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 18th June 1917 Last Survey 14th March 1918

Reg. Book. on the S.S. "War Briton" (Number of Visits 11) Gross 5191 Tons Net 5237.

Master Built at Greenock By whom built Greenock & Grangemouth When built 1918

Engines made at Greenock By whom made Lincaid & Co (720387) When made 1918

Boilers made at Glasgow By whom made D. Rowan & Co. (685) When made 1918

Registered Horse Power Owners Shipping Controller Port belonging to London

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel David Colville Sons Ltd

(Letter for record S) Total Heating Surface of Boilers 7020 sq ft Is forced draft fitted yes No. and Description of Boilers 3 Single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 12/3/18

No. of Certificate 14161 Can each boiler be worked separately yes Area of fire grate in each boiler 63.3 sq ft No. and Description of safety valves to each boiler 1 pair direct spring Area of each valve 9.62 sq in Pressure to which they are adjusted 185 lb

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 26 inches Mean dia. of boilers 16.6 inches Length 11.6 inches

Material of shell plates Steel Thickness 1 1/4 inches Range of tensile strength 28-38 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams lap double long. seams butt tube Diameter of rivet holes in long. seams 1 5/16 inches Pitch of rivets 9-125 rivets 85.3 Working pressure of shell by rules 180 Size of manhole in shell 16" x 12" Size of compensating ring plate flanged No. and Description of Furnaces in each boiler 3 Deighton Material steel Outside diameter 50 3/16 inches Length of plain part top bottom Thickness of plates crown 2 1/8 inches bottom 3/4 inches

Description of longitudinal joint weld No. of strengthening rings 202 Working pressure of furnace by the rules 202 Combustion chamber plates: Material steel Thickness: Sides 23/32 Back 11/16 Top 23/32 Bottom 23/32 Pitch of stays to ditto: Sides 9 1/4 x 10 5/8 Back 10 x 9 Top 9 1/4 x 10 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 188 Material of stays steel Diameter at smallest part 2.07 inches Area supported by each stay 97 sq in Working pressure by rules 193 End plates in steam space: Material steel Thickness 1 1/32 inches Pitch of stays 2 1/2 x 2 1/2 How are stays secured 2 nuts Working pressure by rules 182 Material of stays steel Diameter at smallest part 8.29 inches Area supported by each stay 445 sq in Working pressure by rules 198 Material of Front plates at bottom steel Thickness 31/32 inches Material of Lower back plate steel Thickness 27/32 inches Greatest pitch of stays 13 3/8 inches Working pressure of plate by rules 207 Diameter of tubes 3 inches Pitch of tubes 4 1/2 x 4 1/2 Material of tube plates steel Thickness: Front 31/32 Back 3/4 Mean pitch of stays 10 1/2 inches Pitch across wide water spaces 13 9/8 inches Working pressures by rules 181 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 11" x 7 double Length as per rule 38 9/16 inches Distance apart 10 inches Number and pitch of Stays in each (3) 9 1/4 inches Working pressure by rules 189 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 David Rowan & Co. Manufacturer.

Dates of Survey: During progress of work in shops - 1917 June 18 Oct. 29 Nov. 20 29 Dec. 5. 6. 1918 Jan. 7 Feb. 12 Is the approved plan of boiler forwarded herewith

while building: During erection on board vessel - 15. 20. 12. 14 Total No. of visits 11

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) These boilers have been built under special survey the materials and workmanship are of good description. These boilers have now been efficiently tested on board the above named steamer.

Survey Fee ... £ See Act : When applied for, 191

Travelling Expenses (if any) £ attached hereto When received, 191

James Jones  
A.M. & Co. 2020  
Engineer Surveyor to Lloyd's Register of Shipping.



If not, state whether, and when, one will be sent

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