

REPORT ON BOILERS.

No. 38317.

Received at London Office WED. 20 NOV. 1918

of writing Report 191 When handed in at Local Office 191 Port of Glasgow
 in Survey held at Glasgow Date, First Survey 2nd Oct 1917 Last Survey 8th Nov 1918
 on the SS "WAR ARYAN" (Number of Visits 28) Gross Tons }
 Net Tons }
 Built at Glasgow By whom built Harland & Wolff (No 528) When built 1918
 By whom made Harland & Wolff (No 531) When made 1918
 By whom made D. W. Henderson & Co. Ltd. (5395) When made 1918
 Owners Shipping Controller (American Oil Co. Ltd.) Port belonging to London

LTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.—Manufacturers of Steel D. Colville & Son
 for record (5) Total Heating Surface of Boilers 7668 Is forced draft fitted yes No. and Description of
 Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 29/8/18
 Certificate 14439 Can each boiler be worked separately yes Area of fire grate in each boiler 63.38 No. and Description of
 valves to each boiler pair direct spring Area of each valve 9.62 Pressure to which they are adjusted 185 lb
 they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no
 least distance between boilers or uptakes and bunkers or woodwork 1' 9" Mean dia. of boilers 15' 6" Length 11' 6"
 material of shell plates steel Thickness 1/4" Range of tensile strength 28 to 32 Are the shell plates welded or flanged no
 riveting: cir. seams double lap long, seams double butt Diameter of rivet holes in long, seams 1 5/16" Pitch of rivets 9 1/2"
 plates or width of butt straps 19 1/2" Per centages of strength of longitudinal joint rivets 88.3% Working pressure of shell by
 plate 85.6% No. and Description of Furnaces in each
 3 Dayton Material steel Outside diameter 4 - 2 3/16 Length of plain part top Thickness of plates crown 3/16
bottom 3/32
 description of longitudinal joint weld No. of strengthening rings 1 Working pressure of furnace by the rules 189 Combustion chamber
 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 8 3/4" x 10 1/4"
 If stays are fitted with nuts or riveted heads no Working pressure by rules 180 Material of stays steel Diameter at
 end part 1 9/16 Area supported by each stay 98 Working pressure by rules 182 End plates in steam space: Material steel Thickness 1/32
 of stays 2 1/2" x 20 1/2" How are stays secured 2 nuts Working pressure by rules 182 Material of stays steel Diameter at smallest part 8.29
 supported by each stay 445 Working pressure by rules 198 Material of Front plates at bottom steel Thickness 3/32 Material of
 back plate steel Thickness 23/32 Greatest pitch of stays 9 x 13 3/8" Working pressure of plate by rules 207 Diameter of tubes 2 3/4"
 of tubes 4 x 13 3/8" Material of tube plates steel Thickness: Front 3/32 Back 3/4" Mean pitch of stays 9 3/8" Pitch across wide
 spaces 13 3/8" Working pressures by rules 181 Girders to Chamber tops: Material steel Depth and thickness of
 at centre 10 x 1 3/4" Length as per rule 35 5/16" Distance apart 10 3/8" Number and pitch of Stays in each (3) 9 1/4"
 Working pressure by rules 180 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
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 fitted 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 & WM HENDERSON & CO., LTD.

Manufacturer.

During progress of 1917 Oct. 2-15 Nov. 21 Dec. 11, 1918 Jan. 14-16 Feb. 4-7-21 Is the approved plan of boiler forwarded herewith
 work in shops - 28 Mar. 12-22-25 Apr. 12-24-26 May 22-28-31 June 3.
 During erection on 24 July 24-29 Aug. 5-12-13-29 Nov. 8
 board vessel - - - Total No. of visits 28

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

These Boilers have been built under Special Survey the materials & workmanship
 are of good description.

These Boilers have now been satisfactorily fitted to the vessel
 J. B. Baillie 12/11/18

Survey Fee £ : : When applied for, 191
 Travelling Expenses (if any) £ : : When received, 191

Shipped

Committee's Minute GLASGOW 19 NOV 1918

Signed See accompanying report. *ful*A. McKeand 2021
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.Lloyd's Register
Foundation

1255-0060