

# REPORT ON BOILERS.

No. 40372  
WED SEP 22 1920

Received at London Office

of writing Report 18.9.20 When handed in at Local Office 18.9.20 Port of Glasgow  
 in. Survey held at Glasgow Date, First Survey Last Survey 19  
 Book. SS "LALANDE" (Number of Visits ) Gross 7453  
 on the Tons Net 4635.  
 ter Built at Glasgow By whom built R & W Henderson & Co Ltd When built 1920  
 ines made at 200 By whom made 200 When made 1920  
 ers made at 200 By whom made 200 When made 1920  
 stered Horse Power 675. Owners Port belonging to

**MULTITUBULAR BOILERS** — MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel R & W Henderson & Co Ltd  
 tter for record 5 ) Total Heating Surface of Boilers ~~1800~~ 1775 Is forced draft fitted No  
 lers 1 Single ended Working Pressure 215 lb Tested by hydraulic pressure to 378 Date of test 25.5.20  
 of Certificate 15313 Can each boiler be worked separately - Area of fire grate in each boiler 50.04 No. and Description of  
 ty valves to each boiler 2 Spring loaded Area of each valve 5.93 Pressure to which they are adjusted 220 lb.  
 e they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler -  
 allest distance between boilers or uptakes and bunkers or woodwork 30" Mean dia. of boilers 14.0" Length 10.6"  
 erial of shell plates Steel Thickness 1 1/2" Range of tensile strength 29.635 tons Are the shell plates welded or flanged No  
 scrip. of riveting: cir. seams No long. seams TRDBS Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 10"  
 p of plates or width of butt straps 1-10" Per centages of strength of longitudinal joint rivets 57.6 Working pressure of shell by  
 es 218 Size of manhole in shell 16 x 12" Size of compensating ring 35 x 31" No. and Description of Furnaces in each  
 ller 3 Corrugated Material Steel Outside diameter 3-8 9/16" Length of plain part top - Thickness of plates crown 21" bottom 32"  
 scription of longitudinal joint Welded No. of strengthening rings - Working pressure of furnace by the rules 240 Combustion chamber  
 ates: Material Steel Thickness: Sides 21" Back 21" Top 21" Bottom 7/8" Pitch of stays to ditto: Sides 7 x 9 1/4" Back 9 x 7 1/4"  
 p 8 x 7" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 223 Material of stays Steel Area at  
 allest part 1.76 Area supported by each stay 65.5 Working pressure by rules 230 End plates in steam space: Material Steel Thickness 1 1/8"  
 itch of stays 15 x 16 1/2 How are stays secured R & W Working pressure by rules 217 Material of stays Steel Area at smallest part 6.33  
 rea supported by each stay 245 Working pressure by rules 270 Material of Front plates at bottom Steel Thickness 7/8" Material of  
 ower back plate Steel Thickness 7/8" Greatest pitch of stays 13 1/2" Working pressure of plate by rules 226 Diameter of tubes 3 1/4"  
 itch of tubes 4 1/2 x 4 1/2 Material of tube plates Steel Thickness: Front 7/8" Back 13/16" Mean pitch of stays 9" Pitch across wide  
 ater spaces 14 1/2 Working pressures by rules 220 Girders to Chamber tops: Material Steel Depth and thickness of  
 rder at centre 8 x 7/8 (2) Length as per rule 27.5" Distance apart 8" Number and pitch of Stays in each (3) 7"  
 Working pressure by rules 265 Steam dome: description of joint to shell None % of strength of joint  
 Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes  
 itch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

**SUPERHEATER.** Type None Date of Approval of Plan Tested by Hydraulic Pressure to  
 Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler  
 Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,  
 R & W HENDERSON & CO. LTD. Manufacturer.

Dates of Survey } During progress of } See accompanying } Is the approved plan of boiler forwarded herewith }  
 while building } work in shops - - } machinery report. } Total No. of visits }

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)  
 The materials and workmanship are good  
 The boiler has been built under Special Survey  
 and has been satisfactorily fitted to the vessel

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

Committee's Minute GLASGOW 21 SEP 1920  
 Assigned See attached Mach. Report.  
 as Easton, Mr. P. Murray, Engineer Surveyor to Lloyd's Register of Shipping.  
 Lloyd's Register Foundation