

# REPORT ON BOILERS

No. 19556

2 JUN 1926

Received at London Office

Date of writing Report 26/4/26 When handed in at Local Office 26/5/26 Port of Glasgow  
 No. in Survey held at Glasgow Date, First Survey 25th September, 1925. Last Survey 24th May 1926.  
 Reg. Book. S/S "Utrivina" (Number of Visits 53) Gross Tons }  
 on the } Net Tons }  
 Master Built at Glasgow By whom built R. Duncan & Co When built 1926  
 Engines made at Glasgow By whom made Rankine Blackmore & Co (Ld) When made 1926  
 Boilers made at ditto By whom made ditto (417) When made 1926  
 Registered Horse Power Owners Joseda Steamship Co Ltd Port belonging to Glasgow.

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Balville, Steel Co of Scotland

Letter for record S Total Heating Surface of Boilers 6950 # Is forced draft fitted yes No. and Description of Boilers 2 Single Ended Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 26-3-26  
 No. of Certificate 177, 178 Can each boiler be worked separately yes Area of fire grate in each boiler 6 1/2 # No. and Description of safety valves to each boiler 2 Cochran (High Lift) Area of each valve 9.62" Pressure to which they are adjusted 185  
 Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no  
 Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 14-6" Length 12-6"  
 Material of shell plates S Thickness 17/16" Range of tensile strength 28-32 Are the shell plates welded or flanged yes  
 Descrip. of riveting: cir. seams DR long. seams TRIOBS Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 10 1/4"  
 width of butt straps 1-10" Per centages of strength of longitudinal joint rivets 92.4% Working pressure of shell by rules 182 Size of manhole in 16x12" Size of compensating ring flanged No. and Description of Furnaces in each boiler 4 corrugated Material S Outside diameter 3-11 1/4" Length of plain part top Thickness of plates bottom 9 1/16"  
 Description of longitudinal joint weld No. of strengthening rings yes Working pressure of furnace by the rules 184 Combustion chamber plates: Material S Thickness: Sides 1 1/16" Back 5/8" Top 1 1/16" Bottom 6 1/16" Pitch of stays to ditto: Sides 9 1/8" Back 9 1/4"  
 If stays are fitted with nuts or riveted heads yes Working pressure by rules 181 Material of stays S Area at smallest part 203.23" Area supported by each stay 90.3" Working pressure by rules 200 End plates in steam space: Material S Thickness 1 3/16"  
 Pitch of stays 20 1/4" How are stays secured DNW Working pressure by rules 181 Material of stays S Area at smallest part 4.85"  
 Area supported by each stay 283" Working pressure by rules 191 Material of Front plates at bottom S Thickness 1" Material of lower back plate S Thickness 5 1/16" Greatest pitch of stays 12 3/4" Working pressure of plate by rules 224 Diameter of tubes 2 1/2"  
 Pitch of tubes 3 25/32" Material of tube plates S Thickness: Front 67/64" Back 3/4" Mean pitch of stays 7.4" Pitch across wide water spaces 13 1/4" Working pressures by rules 185 Girders to Chamber tops: Material S Depth and thickness of girder at centre 13.23/32" Length as per rule 3-11" Distance apart 10 1/4" Number and pitch of Stays in each 4 at 8 13/16"  
 Working pressure by rules 186 Steam dome: description of joint to shell \_\_\_\_\_ % of strength of joint \_\_\_\_\_  
 Diameter \_\_\_\_\_ Thickness of shell plates \_\_\_\_\_ Material \_\_\_\_\_ Description of longitudinal joint \_\_\_\_\_ Diam. of rivet holes \_\_\_\_\_  
 Pitch of rivets \_\_\_\_\_ Working pressure of shell by rules \_\_\_\_\_ Crown plates \_\_\_\_\_ Thickness \_\_\_\_\_ How stayed \_\_\_\_\_

**SUPERHEATER.** Type \_\_\_\_\_ 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,  
RANKINE & BLACKMORE, LTD. Manufacturer.  
A. J. J. J. Director.

Dates of Survey: During progress of work in shops - - -  
 while building - - -  
 See Machinery Report.  
 Is the approved plan of boiler forwarded herewith yes  
 Total No. of visits \_\_\_\_\_

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) These Boilers have been built under Special Survey in accordance with the approved laws & the workmanship & material are of good quality. They have now been securely fitted on board. This Report accompanies that of the Machinery

Survey Fee ... £ changed on Machinery Report When applied for, 19...  
 Travelling ... £ ... When received, 19...  
W. J. J. J. London Director  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 1-JUN 1926  
 Assigned See accompanying machinery report  
 Lloyd's Register Foundation  
 W552-0157