

# REPORT ON BOILERS.

No. 18413.

Received at London Office 17 JUN 1925

Date of writing Report 30/6/25 When handed in at Local Office 9/6/25 Port of Glasgow  
 No. in Survey held at Glasgow Date, First Survey 11th September, 1924 Last Survey 10th June, 1925  
 Reg. Book on the TS MV "Athelchief" (Number of Visits 69) Gross Tons 1925 Net Tons 1925  
 Master Bundie Built at Bundie By whom built Baldou & Co. Ltd. 294 When built 1925  
 Engines made at Glasgow By whom made John & Kincaid 1924 (16) When made 1925  
 Boilers made at ditto By whom made " When made 1925  
 Registered Horse Power Owners Port belonging to "

**MULTITUBULAR BOILERS** Donkey AUXILIARY Donkey — Manufacturers of Steel Donkey  
 Letter for record S Total Heating Surface of Boilers 2441 Is forced draft fitted No No. and Description of  
 Boilers 2 Single ended Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 8.4.25  
 No. of Certificate 1689 Can each boiler be worked separately Area of fire grate in each boiler Oil Fuel No. and Description of  
 Safety valves to each boiler Double Spring Area of each valve 4'98" Pressure to which they are adjusted "  
 Are they fitted with easing gear 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 Mean dia. of boilers 11' 3" Length 10' 6"  
 Material of shell plates S Thickness 15/16" Range of tensile strength 28/32 Are the shell plates welded or flanged "  
 Descrip. of riveting: cir. seams DR long. seams TR. DBS Diameter of rivet holes in long. seams 1" Pitch of rivets 7"  
up of plates or width of butt straps 14 7/8" Per centages of strength of longitudinal joint 92.4% Working pressure of shell by  
 Rules 182 Size of manhole in shell 16" x 20" Size of compensating ring 22 3/4" x 28 3/4" x 1 1/2" No. and Description of Furnaces in each  
 Boiler 2 Doughton Material S Outside diameter 3' 4 1/4" Length of plain part top Thickness of plates crown 15/32"  
 Description of longitudinal joint weld No. of strengthening rings " Working pressure of furnace by the rules 182 Combustion chamber  
 Plates: Material S Thickness: Sides 21/32" Back 21/32" Top 21/32" Bottom 21/32" Pitch of stays to ditto: Sides 10' 8" Back 9' 9 1/4"  
 Top 8' 10" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 180 Material of stays S Area at  
 Smallest part 17' 3" x 20" Area supported by each stay 83.25" Working pressure by rules 181 End plates in steam space: Material S Thickness 1 1/32"  
 Pitch of stays 16 1/2" x 16 1/2" How are stays secured Nuts Working pressure by rules 181 Material of stays S Area at smallest part 4.57"  
 Area supported by each stay 242.2" Working pressure by rules 182 Material of Front plates at bottom S Thickness 1" Material of  
 Lower back plate S Thickness 25/32" Greatest pitch of stays 13 3/4" Working pressure of plate by rules 181 Diameter of tubes 3"  
 Pitch of tubes 4 1/4" x 4 3/16" Material of tube plates S Thickness: Front 1" Back 23/32" Mean pitch of stays 9' 7/8" Pitch across wide  
 Water spaces 14" Working pressures by rules 181 Girders to Chamber tops: Material S Depth and thickness of  
 Girder at centre 8 1/4" x 3 1/4" (2) Length as per rule 2.762 Distance apart 8' Number and pitch of Stays in each 2 at 10'  
 Working pressure by rules 183 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,  
 For and on behalf of **JOHN G. KINCAID & COY., LIMITED.** Manufacturer.  
Robert Green Director

Dates of Survey During progress of work in shops - - Is the approved plan of boiler forwarded herewith Yes  
while building During erection on board vessel - - Total No. of visits 69  
 See Machinery 1st Entry.

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) These Boilers have been  
built under Special Survey in accordance with the  
approved plan & the workmanship & material are of good quality &  
they have now been shipped to Dundee, at which port they will  
be fitted on board. This Rept. accompanies that of the Machinery.  
 Survey Fee Charged on machinery report When applied for 15. 6. 1925  
 Travelling Expenses (if any) £ When received 6. 8. 1925  
 Committee's Minute **GLASGOW 16 JUN 1925**  
 Assigned See accompanying machinery report  
**W. Gordon-Mitchell**  
 Engineer Surveyor to Lloyd's Register of Shipping.  
 FRI. 11 SEP 1925  
 See Dan J.E. 25-28  
 Lloyd's Register Foundation  
 W145-0154