

## 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 Greenock  
 No. in Survey held at Greenock Date, First Survey 25th September, 1925. Last Survey 24th May, 1926.  
 Reg. Book. S/S Vitruvia (Number of Visits 53.) Gross Tons Net  
 on the  
 Master Built at Glasgow By whom built R. Duncan & Co. Ltd. When built 1926  
 Engines made at Greenock By whom made Rankine Blackmore & Co. (417) When made 1926  
 Boilers made at ditto By whom made ditto (417) When made 1926  
 Registered Horse Power Owners J. & A. Thompson & Co. Ltd. Port belonging to Glasgow.

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

Letter for record \$ Total Heating Surface of Boilers 6950 # Is forced draft fitted Yes No. and Description of  
 26 boilers 2 Single Ended Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 22-3-26  
 26 No. of Certificate 177, 178 Can each boiler be worked separately Yes Area of fire grate in each boiler 61.5 sq. ft. No. and Description of  
 116 safety valves to each boiler 2 Cockburn (High Lift) Area of each valve 9.62" Pressure to which they are adjusted 185  
 8 MG Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No  
 42 MG Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 14-6" Length 12-6"  
 55 MG Material of shell plates S Thickness 17/16" Range of tensile strength 28-32 Are the shell plates welded or flanged  
 54 MG 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"  
 6 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 end 16-12" 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 crown 9 1/16"  
 Description of longitudinal joint mild No. of strengthening rings 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 1/64" Pitch of stays to ditto: Sides 9 1/2" Back 9 1/4"  
 Top 10 1/2" 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 3/64"  
 Pitch of stays 20 1/4" How are stays secured DN.W 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 1/64" 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  
 150 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 (2) Length as per rule 3-11 Distance apart 10 1/4" Number and pitch of Stays in each 4 at 8 1/16"  
 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,

RANKIN &amp; BLACKMORE, LTD.

H. J. J. J. J.

Manufacturer.

Dates During progress of  
 of Survey work in shops - -  
 while During erection on  
 building board vessel - - -

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, &amp;c.)

These Boilers have been built under Special Survey in accordance with the approved class & the workmanship & material are of good quality. They have now been securely fitted on board. This Report accompanies that of the Machinery

Survey Fee ... £ ... When applied for, 19

Travelling ... £ ... When received, 19

Committee's Minute GLASGOW 1-JUN 1926

Assigned See accompanying machinery report

Engine Surveyor to Lloyd's Register of Shipping.

W552-0157

Lloyd's Register Foundation