

# REPORT ON BOILERS.

No. 33284

WED. NOV. 5-1913

Date of writing Report 31/10/1913 When handed in at Local Office 31/10/1913 Port of Glasgow  
 No. in Survey held at Glasgow Date, First Survey 3<sup>rd</sup> April Last Survey 29<sup>th</sup> Oct. 1913  
 Reg. Book. 57 Sup. on the Donkey Boiler for the S.S. "Strabo" (Number of Visits 23.) Tons } Gross 4910.  
 Net 3071.  
 Master Built at Dumbarton By whom built A. R. Millan, Jnr When built 1913  
 Engines made at Glasgow By whom made David Rowan & Co When made 1913  
 Boilers made at Glasgow By whom made do When made 1913  
 Registered Horse Power Owners Larnmont & Holt Ltd Port belonging to 1913

## MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel James Dunlop & Co Ltd Glasgow Iron Works Ltd

(Letter for record 15) Total Heating Surface of Boilers 1478 sq ft Is forced draft fitted no No. and Description of Boilers One Single Ended Working Pressure 120 lbs Tested by hydraulic pressure to 220 lbs Date of test 28/8/13  
 No. of Certificate 12282 Can each boiler be worked separately Area of fire grate in each boiler 40.5 sq ft No. and Description of safety valves to each boiler Cochran's Double Area of each valve 5.9 sq in Pressure to which they are adjusted 123 lbs  
 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 21 in Mean dia. of boilers 12.6 in Length 10.6 in  
 Material of shell plates slit Thickness 3/4 in Range of tensile strength 28-32 Are the shell plates welded or flanged no  
 Descrip. of riveting: cir. seams B.S. long. seams B.S. Diameter of rivet holes in long. seams 19/16 Pitch of rivets 5.625  
 Lap of plates or width of butt straps 14 3/4 in Per centages of strength of longitudinal joint rivets 85.6 plate 83.25 Working pressure of shell by rules 120 lbs Size of manhole in shell 16 x 12 Size of compensating ring Hanged No. and Description of Furnaces in each boiler 2 plain Material slit Outside diameter 3.9 1/2 Length of plain part top 75 bottom 108 Thickness of plates crown 5/8 bottom 5/8 11/16  
 Description of longitudinal joint weld No. of strengthening rings 1 ft Working pressure of furnace by the rules 123 Combustion chamber plates: Material slit Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 11/16 Pitch of stays to ditto: Sides 8 x 9 1/2 Back 9 1/4 x 8 Top 8 x 9 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 143 Material of stays slit Diameter at smallest part 1.22 Area supported by each stay 76 Working pressure by rules 130 End plates in steam space: Material slit Thickness 2 9/32 Pitch of stays 17 x 17 How are stays secured B. nuts Working pressure by rules 120 Material of stays slit Diameter at smallest part 3.97  
 Area supported by each stay 285 Working pressure by rules 120 Material of Front plates at bottom slit Thickness 13/16 Material of Lower back plate slit Thickness 3/4 Greatest pitch of stays 12 1/2 Working pressure of plate by rules 120 Diameter of tubes 3 Pitch of tubes 4 1/2 x 2 1/8 Material of tube plates slit Thickness: Front 13/16 Back 11/16 Mean pitch of stays 11 9/16 Pitch across wide water spaces 13 Working pressures by rules 120 Girders to Chamber tops: Material slit Depth and thickness of girder at centre 8 1/2 x 11/16 x 2 Length as per rule 33 3/4 Distance apart 9 1/2 Number and pitch of Stays in each 3 x 8 Working pressure by rules 120 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 holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness  
 If stiffened 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 Rowan & Co Manufacturer.

Is the approved plan of boiler forwarded herewith Yes.

Total No. of visits 23.

Dates of Survey } During progress of work in shops - - }  
 while building } During erection on board vessel - - - } See accompanying report.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under Special Survey & is of good materials & workmanship. It has been fitted on board as stated Rpt. H.

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

Committee's Minute

GLASGOW

4- NOV. 1913

Assigned See accompanying machinery report.

H. Gardner-Smith.  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Lloyd's Register Foundation