

## REPORT ON BOILERS.

No. 30020.

Received at London Office

WED. 3 MAY 1911

Date of writing Report 19 When handed in at Local Office 27/4/11 Port of Glasgow  
 No. in Survey held at Glasgow Date, First Survey 16<sup>th</sup> March 10 Last Survey 25<sup>th</sup> April 1911  
 Reg. Book. S/S Havildar (Number of Visits 63) Gross 4911.  
 on the Tons Net 3086.  
 Master J. Blingar Built at Glasgow By whom built C. Louell 1911  
 Engines made at Glasgow By whom made Dunscombe Jackson 2<sup>nd</sup> 364 when made 1911  
 Boilers made at ditto By whom made ditto when made 1911  
 Registered Horse Power Owners Asiatic Steam Navigation Co. Ltd. Port belonging to Liverpool  
 Melish Turner & Co.

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Belleville

(Letter for record A.T.) Total Heating Surface of Boilers 953<sup>4</sup> Is forced draft fitted No No. and Description of  
 Boilers one single ended Working Pressure 100. Tested by hydraulic pressure to 200 Date of test 24-11-10  
 No. of Certificate 10646 Can each boiler be worked separately ✓ Area of fire grate in each boiler 30.83<sup>4</sup> No. and Description of  
 safety valves to each boiler Double Spring Area of each valve 5.9<sup>4</sup> Pressure to which they are adjusted 105  
 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 6" Mean dia. of boilers 10-6 2 1/32 Length 9-6"  
 Material of shell plates S Thickness 2 1/32 Range of tensile strength 28/32 Are the shell plates welded or flanged ✓  
 Descrip. of riveting: cir. seams DR long. seams TR Lap Diameter of rivet holes in long. seams 1" Pitch of rivets 3 1/16"  
 Lap of plates width of butt straps 4" Per centages of strength of longitudinal joint rivets 80% Working pressure of shell by  
 rules 102 Size of manhole in shell 16" x 12" Size of compensating ring 8" x 8" No. and Description of Furnaces in each  
 boiler 2 plain Material S Outside diameter 3-2 1/8 Length of plain part top 6-5 1/2 Thickness of plates crown 9 1/16  
 Description of longitudinal joint mild No. of strengthening rings one Working pressure of furnace by the rules 105 Combustion chamber  
 plates: Material S Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 5/8" Pitch of stays to ditto: Sides 8" x 8 3/4" Back 8 1/2" x 8 7/16"  
 Top 9" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 106 Material of stays Iron Diameter at  
 smallest part 1 1/2" Area supported by each stay 42" Working pressure by rules 102 End plates in steam space: Material S Thickness 3/4"  
 Pitch of stays 15 1/2" x 15 1/4" How are stays secured DN Working pressure by rules 105 Material of stays Iron Diameter at smallest part 103  
 Area supported by each stay 240" Working pressure by rules 103 Material of Front plates at bottom S Thickness 3/4" Material of  
 Lower back plate S Thickness 2 1/32 Greatest pitch of stays 14" Working pressure of plate by rules 106 Diameter of tubes 3"  
 Pitch of tubes 4 1/4" x 4 1/8" Material of tube plates S Thickness: Front 3/4" Back 1 1/16" Mean pitch of stays 12 1/4" Pitch across wide  
 water spaces 14" Working pressures by rules 107 Girders to Chamber tops: Material Iron Depth and thickness of  
 girder at centre 6" x 3 1/4" (2) Length as per rule 2-4 Distance apart 8. Number and pitch of Stays in each 2 at 9"  
 Working pressure by rules 110 Superheater or Steam chest: how connected to boiler 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,

James Fletcher Manufacturer.

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits

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

See accompanying  
 Machinery report

## GENERAL REMARKS

(State quality of workmanship, opinions as to class, &amp;c.)

This Boiler has been built under Special Survey in accordance with the approved plan & the workmanship & material are of good quality. This Report accompanies that of the Main Engine Boilers.

Survey Fee ... £

When applied for. 19

Travelling Expenses (if any) £

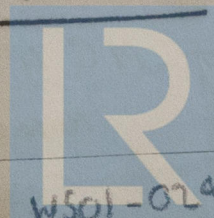
When received. 19

W. Gordon Muirhead  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Assigned See minute on  
 machinery report.

Glasgow 2-MAY.1911



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