

REPORT ON BOILERS.

No. 31592.

Received at London Office

WED. JUN. 26. 1912

Date of writing Report 22.6.1912 When handed in at Local Office 22.6.1912 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 5.10.11 Last Survey 29.1.1912
 eg. Book. on the Boilers 2 B170 for the T.S.S. "Statinga." (Number of Visits 13) Gross 2114
 Tons Net 1181
 Master R. E. McNeill Built at Troon By whom built Ailsa J. B. Co. Ltd When built 1912
 Engines made at Troon By whom made Ailsa J. B. Co. Ltd When made 1912
 Boilers made at Glasgow By whom made David Rowan & Co When made 1912
 Registered Horse Power 304 Owners Companhia Nacional de Navegacao Costeira Port belonging to Rio de Janeiro

ULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY~~ ^{Auxiliary main} Manufacturers of Steel Wm Beardmore & Co Ltd

Letter for record (5) Total Heating Surface of Boilers 887.7 Is forced draft fitted — No. and Description of Boilers One single Ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 29/1/12
 No. of Certificate 11394 Can each boiler be worked separately — Area of fire grate in each boiler 30 No. and Description of Safety valves to each boiler 2 Spring loaded Area of each valve 3.14 Pressure to which they are adjusted 185 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 O.B.
 Smallest distance between boilers or uptakes and bunkers or woodwork 11" Mean dia. of boilers 10.6" Length 10.0"
 Material of shell plates Steel Thickness 7/8" Range of tensile strength 24632 Are the shell plates welded or flanged No
 Description of riveting: cir. seams D. R. L. long. seams D. B. S. Diameter of rivet holes in long. seams 5/16" Pitch of rivets 6 1/8"
 Width of butt straps 1 1/4" Per centages of strength of longitudinal joint rivets 87.8 Working pressure of shell by rules 180 Size of manhole in shell 18" x 12" Size of compensating ring Hanged No. and Description of Furnaces in each boiler 2 Morrison Material Steel Outside diameter 3.5" Length of plain part — Thickness of plates crown 1/2" bottom —
 Description of longitudinal joint weld No. of strengthening rings — Working pressure of furnace by the rules 184 Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 7/8" Top 9/16" Bottom 3/4" Pitch of stays to ditto: Sides 8 1/4" x 7 1/4" Back 8 3/8" x 8 3/8"
 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 181 Material of stays Steel Diameter at smallest part 7.76 Area supported by each stay 60 Working pressure by rules 180 End plates in steam space: Material Steel Thickness 1 7/16"
 How are stays secured D. Nuts Working pressure by rules 180 Material of stays Steel Diameter at smallest part 7.06 Area supported by each stay 415 Working pressure by rules 180 Material of Front plates at bottom Steel Thickness 7/8" Material of lower back plate Steel Thickness 13/16" Greatest pitch of stays 13 1/2" Working pressure of plate by rules 180 Diameter of tubes 3"
 Pitch of tubes 4 1/4" x 4 1/2" Material of tube plates Steel Thickness: Front 7/8" Back 11/16" Mean pitch of stays 9 7/16" Pitch across wide inter spaces 14" Working pressures by rules 258 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 1/2" x 1 1/2" Length as per rule 27 Distance apart 7 1/4" Number and pitch of Stays in each 2 at 8 1/4" Working pressure by rules 184 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

Pitch of rivets	Working pressure of shell by rules	Diameter of flue	Material of flue plates	Thickness

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,

David Rowan & Co Manufacturer.

Dates of Survey while building: During progress of work in shops - - 1911. Oct. 5. 9. 18. 30. Nov. 15. 20. 22. 27. Dec. 1. 8.
 During erection on board vessel - - - 1912. Jan. 9. 17. 29.
 Is the approved plan of boiler forwarded herewith Yes as B 169
 Total No. of visits 13

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 is to be fitted on board at Troon. This boiler has been satisfactorily fitted on board the above vessel.

Charged on Main Rte. Rept. Survey Fee ... £ : : When applied for, 191
 Travelling Expenses (if any) £ : : When received, 191

H. B. Forster
14.6.12

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

Committee's Minute GLASGOW 25 JUN. 1912

Assigned See accompanying machinery report.

