

REPORT ON BOILERS.

No. 34142

Received at London Office

WED. JUN. 24 1914.

Date of writing Report 1914 When handed in at Local Office 20.6.14 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 23.4.14 Last Survey 10.6.1914
 Reg. Book. on the (Number of Visits 6) Gross Tons Net
 Master Built at Dundee By whom built Dundee S.P.C. (No. 165) When built 1914
 Engines made at Coatbridge By whom made Lidswood Lim (423) When made 1914
 Boilers made at Glasgow By whom made D. Rowan & Co (210) When made 1914
 Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY—Manufacturers of Steel

(Letter for record 3) Total Heating Surface of Boilers 14387 Is forced draft fitted
 Boilers 1 Single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 10/6/14
 No. of Certificate 12758 Can each boiler be worked separately Area of fire grate in each boiler 49.5 No. and Description of safety valves to each boiler
 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 Inside dia. of boilers 13-6 Length 10-6
 Material of shell plates Steel Thickness 3/32 Range of tensile strength 28/32 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams Lap double long seams tubular Diameter of rivet holes in long. seams 7/16 Pitch of rivets 8 3/16
 Lap of plates or width of butt straps 7 3/4 Per centages of strength of longitudinal joint rivets 92 Working pressure of shell by plate 85.7
 Rules 180 Size of manhole in shell 16 x 12 Size of compensating ring 33 x 29 x 29 No. and Description of Furnaces in each boiler 3 plain Material Steel Outside diameter 41 9/16 Length of plain part top 6-3 Thickness of plates crown 3/4 bottom 3/4
 Description of longitudinal joint Weld No. of strengthening rings 1 per part Working pressure of furnace by the rules 93 Combustion chamber plates: Material Steel Thickness: Sides 23/32 Back 1/4 Top 23/32 Bottom 23/32 Pitch of stays to ditto: Sides 10 x 9 3/4 Back 8 3/4 x 9
 top 4 1/2 x 10 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 193 Material of stays Steel Area Diameter at smallest part 1.76 Area supported by each stay 78 Working pressure by rules 180 End plates in steam space: Material Steel Thickness 1 1/4 Area 5.93 Diameter at smallest part 7.06
 Pitch of stays 9 1/2 How are stays secured 27 nuts Working pressure by rules 180 Material of stays Steel Area Diameter at smallest part 7.06
 Area supported by each stay 40.4 Working pressure by rules 182 Material of Front plates at bottom Steel Thickness 29/32 Material of Lower back plate Steel Thickness 7/16 Greatest pitch of stays 10 3/8 Working pressure of plate by rules 186 Diameter of tubes 3 1/2
 Pitch of tubes 5 x 5 1/2 Material of tube plates Steel Thickness: Front 29/32 Back 29/32 Mean pitch of stays 11 1/4 Pitch across wide water spaces 14 Working pressures by rules 182 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 10 1/2 x 8 double length as per rule 37 1/2 Distance apart 10 Number and pitch of Stays in each (3) 9 1/4
 Working pressure by rules 186 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

Survey request form No. 1419 attached

The foregoing is a correct description, for David Rowan & Co. Manufacturer.

Dates of Survey During progress of work in shops - - 1914. Apr 23. May 14. 18. June 1. 9. 10. Is the approved plan of boiler forwarded herewith Yes
 while building During erection on board vessel - - - Total No. of visits 6

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 This boiler has been built under special survey, the materials and workmanship are of good description.

See changed on Machinery Report
 Survey Fee ... £ : : When applied for, 191
 Travelling Expenses (if any) £ : : When received, 191

A. McLeod Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 23 JUN. 1914 FRI. AUG. 14. 1914

Assigned Deferred for compl. CHA



W309-0099