

REPORT ON BOILERS.

No. 28243.

Received at London Office

THUR, 4 NOV 1909

Date of writing Report 19 When handed in at Local Office 1. 11. 09 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 19th Aug! Last Survey 26th Oct 19 09.

Reg. Book. on the Boiler No. 929 for Garston Graving Dock, S.B. No. 65. (Number of Visits 9) Gross Tons Net

Master Built at Garston By whom built Garston Graving Dock: When built

Engines made at Glasgow By whom made Miller & Mettie No. 58 when made 1909.

Rivets Plates Boilers made at Glasgow By whom made Ewing & Lawson when made 1909.

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel W. Brantmore & Co.

Letter for record (5) Total Heating Surface of Boilers 756.8^{sq} Is forced draft fitted No. and Description of Boilers One Single Ended Working Pressure 130^{lb} Tested by hydraulic pressure to 260^{lb} Date of test 26/10/09

No. of Certificate 10162 Can each boiler be worked separately Area of fire grate in each boiler 33^{sq} No. and Description of safety valves to each boiler Area of each valve Pressure to which they are adjusted

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 Mean dia. of boilers 10'-0" Length 9'-0"

Material of shell plates steel Thickness 1 1/16 Range of tensile strength 28632 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams D. R. L. long. seams D. B. S. Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 5 1/2"

Top of plates or width of butt straps 14 1/4 Per centages of strength of longitudinal joint rivets 96 Working pressure of shell by rules 137 Size of manhole in shell 16 x 12 Size of compensating ring 24 x 28 x 1 1/16 No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 38" Length of plain part top 66 Thickness of plates crown 9/16 bottom 92

Description of longitudinal joint wild No. of strengthening rings 1^{pl} Working pressure of furnace by the rules 135 Combustion chamber plates: Material steel Thickness: Sides 17/32 Back 9/16 Top 35/64 Bottom 17/32 Pitch of stays to ditto: Sides 7 x 9 Back 8 1/2 x 9

Top 7 x 9 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 130 Material of stays steel Diameter at smallest part 1.24 Area supported by each stay 66 Working pressure by rules 150 End plates in steam space: Material steel Thickness 25/32 Pitch of stays 16 1/2 x 12 3/4 How are stays secured D. nuts Working pressure by rules 135 Material of stays steel Diameter at smallest part 3.26 Area supported by each stay 210 Working pressure by rules 160 Material of Front plates at bottom steel Thickness 25/32 Material of Lower back plate steel Thickness 25/32 Greatest pitch of stays 13 Working pressure of plate by rules Diameter of tubes 3 1/4"

Pitch of tubes 4 1/4 Material of tube plates steel Thickness: Front 25/32 Back 21/32 Mean pitch of stays 10 5/8 Pitch across wide water spaces 13 1/2 Working pressures by rules 170 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 8 x 7/4 x 2 Length as per rule 26 1/4 Distance apart 9 1/2 Number and pitch of Stays in each 2 - 7"

Working pressure by rules 175 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. 251 attached

The foregoing is a correct description, Manufacturer.

Dates of Survey while building During progress of work in shops 1909 Aug 19. 25. Sep 8. 10. 21. 28. Oct 6. 12. 14. 26. Is the approved plan of boiler forwarded herewith Ewing & Lawson, Limited Yes.

Total No. of visits 10 J. N. Ewing DIRECTOR

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under Special Survey & is of good workmanship & materials

Survey Fee ... £ 2 : 10/- When applied for 2/11/09

Travelling Expenses (if any) £ : : When received 24/12/09

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

Committee's Minute GLASGOW 5 - NOV. 1909

Assigned Deferred for completion

Lloyd's Register of Shipping

© 2020 Lloyd's Register Foundation