

REPORT ON BOILERS.

No. 59743

WFD. 15 MAR 1911
SAT. 11 FEB 1911

Received at London Office

Date of writing Report 7th Sept. 1910 When handed in at Local Office FEB 10 1911 Port of Newcastle
 No. in Survey held at Newcastle Date, First Survey 21st July 1910 Last Survey 19
 Reg. Book. AO (Number of Visits) 5 Gross Tons 135
 on the T.S.S. "BARON DE CAMETA" Net Tons 135
 Master Built at Newcastle By whom built Smiths Dock Co. Ltd (N.46) When built 1910
 Engines made at North Shields By whom made Shields Eng. & D. B. Co. Ltd when made 1910
 Boilers made at Newcastle By whom made Robert Stephenson & Co. No. 659 when made 1910
 Registered Horse Power 135 Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spence & Sons
 (Letter for record S) Total Heating Surface of Boilers 1300 Is forced draft fitted no No. and Description of Boilers One, single-ended Working Pressure 130 lbs Tested by hydraulic pressure to 260 lbs Date of test 2/9/10
 No. of Certificate 8031 Can each boiler be worked separately ✓ Area of fire grate in each boiler 41 sq ft No. and Description of safety valves to each boiler Two direct spring Area of each valve 5.9 sq in Pressure to which they are adjusted 135 lbs
 Are they fitted with easing gear yes 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 10" Mean dia. of boilers 12'-6" Length 10'-0"
 Material of shell plates Steel Thickness 13/16" Range of tensile strength 28-32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams S. Lap long. seams S. Rivet Diameter of rivet holes in long. seams 15/16" Pitch of rivets 5 7/8"
 Lap of plates or width of butt straps 14 3/4" Per centages of strength of longitudinal joint 86 Working pressure of shell by rules 135 lbs Size of manhole in shell 16" x 12" Size of compensating ring 7" x 13/16" No. and Description of Furnaces in each boiler 2 - plain Material Steel Outside diameter 46 1/4" Length of plain part 81" Thickness of plates 11/16"
 Description of longitudinal joint S.B.S.S. Rivet No. of strengthening rings ✓ Working pressure of furnace by the rules 135 lbs Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 13/16" Pitch of stays to ditto: Sides 9" x 9" Back 9" x 9" Top 9" x 9" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 135 lbs Material of stays Steel Diameter at smallest part 1 1/4" Area supported by each stay 81 sq in Working pressure by rules 143 lbs End plates in steam space: Material Steel Thickness 29/32"
 Pitch of stays 17" x 16 1/2" How are stays secured S. N. & W. Working pressure by rules 136 lbs Material of stays Steel Diameter at smallest part 4 1/16"
 Area supported by each stay 280.5 sq in Working pressure by rules 157 lbs Material of Front plates at bottom Steel Thickness 27/32" Material of Lower back plate Steel Thickness 13/16" Greatest pitch of stays 13" Working pressure of plate by rules 195 lbs Diameter of tubes 3 1/2"
 Pitch of tubes 4 7/8" x 4 3/4" Material of tube plates Steel Thickness: Front 27/32" Back 3/4" Mean pitch of stays 10.592" Pitch across wide water spaces 13 7/8" Working pressures by rules 133 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8" x 1 3/8" Length as per rule 31 3/32" Distance apart 9" Number and pitch of Stays in each 2 - 9"
 Working pressure by rules 152 lbs 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 W. B. PEAT, Receiver and Manager,
 for the Debenture Holders of
 ROBERT STEPHENSON AND CO. LIMITED.
 Is the approved plan of boiler forwarded herewith yes
 Total No. of visits 5

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

Survey Fee £ When applied for. 19
 Travelling Expenses (if any) See Machinery Report When received. 19

Thomas Laidlaw
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Assigned

FRI 7 APR 1911

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Lloyd's Register
Foundation