

TUE. DEC. -3. 1912

63354

REPORT ON BOILERS.

No. 62514

Received at London Office THU. JUN. 20. 1912

Date of writing Report 31st May 1912 When handed in at Local Office JUN 8 1912 Port of Newcastle
 No. in Survey held at Gateshead Date, First Survey 29th Apr. Last Survey 26th Nov 1912
 Reg. Book. 233 on the Donkey boiler for the Ss Barrow Edwards Vm
 Master G. Appollonio Built at Lonsdale By whom built Lonsdale S & S. C^o L^{td} When built 1902-7
 Engines made at Glasgow By whom made Hulton & Sons L^{td} when made 1902-7
 Boilers made at Gateshead By whom made Clarke Chapman & Co. W. 22428 when made 1912
 Registered Horse Power Owners Ss. de la Vera y Pineda Matias Pineda Port belonging to Lonsdale

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spencer & Sons
 (Letter for record S.) Total Heating Surface of Boilers 550 sq Is forced draft fitted No. and Description of
 Boilers One, single-ended Working Pressure 80 lbs Tested by hydraulic pressure to 160 lbs Date of test 31/5/12
 No. of Certificate 8322 Can each boiler be worked separately ✓ Area of fire grate in each boiler 22½ sq No. and Description of
 safety valves to each boiler 2 Spring loaded Area of each valve 7.07 sq Pressure to which they are adjusted 85 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.
 Smallest distance between boilers or uptakes and bunkers or woodwork 3'-0" Mean dia. of boilers 8'-6" Length 8'-6"
 Material of shell plates Steel Thickness ½" Range of tensile strength 28-32 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams S. Lap. Long. seams S. Lap. Diameter of rivet holes in long. seams ⅝" Pitch of rivets 3¼"
 Lap of plates or width of butt straps 4½" Per centages of strength of longitudinal joint rivets 72-1 Working pressure of shell by
 rules 85 lbs Size of manhole in shell 15" x 12" Size of compensating ring 6" x ½" No. and Description of Furnaces in each
 boiler 2-plain Material Steel Outside diameter 31⅞" Length of plain part top 62" Thickness of plates crown ⅞" bottom 62"
 Description of longitudinal joint S. Lap No. of strengthening rings ✓ Working pressure of furnace by the rules 103 lbs Combustion chamber
 plates: Material Steel Thickness: Sides ½" Back 9/16" Top ½" Bottom ½" Pitch of stays to ditto: Sides 10" x 9" Back 11" x 11"
 Top 9" x 8½" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 91 lbs Material of stays Steel Diameter at
 smallest part 1-230" Area supported by each stay 121 sq Working pressure by rules 81 lbs End plates in steam space: Material Steel Thickness ⅞"
 Pitch of stays 17" x 11" How are stays secured S. H. W. Working pressure by rules 109 lbs Material of stays Steel Diameter at smallest part 1⅞"
 Area supported by each stay 187 sq Working pressure by rules 115 lbs Material of Front plates at bottom Steel Thickness ⅞" Material of
 Lower back plate Steel Thickness ⅞" Greatest pitch of stays 11" x 11" Working pressure of plate by rules 35 lbs Diameter of tubes 3"
 Pitch of tubes 4" x 4" Material of tube plates Steel Thickness: Front ⅞" Back 5/8" Mean pitch of stays 12" Pitch across wide
 water spaces 13" Working pressures by rules 97 lbs Girders to Chamber tops: Material Steel Depth and thickness of
 girder at centre 6½" x 1" Length as per rule 23¾" Distance apart 8½" Number and pitch of Stays in each 1-10½"
 Working pressure by rules 118 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 ✓

For CLARKE, CHAPMAN & CO. LTD.
 The foregoing is a correct description,

Robert Scott Manufacturer.

Dates of Survey 1912
 During progress of work in shops - - - Apr. 29. May 7. 10. 22. 31.
 while building During erection on board vessel - - - See Mch Report 63354

Is the approved plan of boiler forwarded herewith Director, Yes
 Total No. of visits 5

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. This donkey boiler has been constructed under special survey & the materials & workmanship are found to be good. This boiler has now been fitted on board and efficiently secured in place (Main deck).

Survey Fee ... £2 : 2 : 0 When applied for, Monthly
 Travelling Expenses (if any) £ : : When received, 19

Thomas Keefe & Co. Ltd.
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. DEC. -6. 1912

Assigned See Minute on hwc. Rpt.

Write Rec. Rpt hwc 24.6.12

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Lloyd's Register
 Foundation