

# REPORT ON BOILERS.

No. 73339

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Report 19 When handed in at Local Office 10-7-1920 Port of Newcastle-on-Tyne  
 Date, First Survey White building Last Survey Dr. Uckley 1920  
 (Number of Visits ) } Gross  
 Tons } Net  
 Survey held at Wallsend  
 on the S.S. "CITY OF BRISBANE"  
 Built at Newcastle By whom built Swan Hunter, Milham & Co. Ltd. When built 1920  
 By whom made Wallsend Slipway and Engineering Co. Ltd. When made 1920  
 By whom made do. When made 1920  
 Owners: Ellerman Lines Ltd. Port belonging to do.

# RETAIN

**TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel John Spencer & Sons Ltd.  
 Total Heating Surface of Boilers 1682 sq Is forced draft fitted Yes No. and Description of  
 Working Pressure 225 Tested by hydraulic pressure to 394 Date of test 23.12.19  
 Area of fire grate in each boiler 42 sq No. and Description of  
 Area of each valve 5.94 sq Pressure to which they are adjusted 230 lbs  
 Can each boiler be worked separately Yes  
 In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes  
 fitted with easing gear Yes  
 distance between boilers or uptakes and bunkers or woodwork 8" dia. of boilers 12'-9" Length 11'-6" (mean)  
 of shell plates Steel Thickness 1 1/4" Range of tensile strength 30/34 T Are the shell plates welded or flanged No.  
 of riveting: cir. seams DR. Lap. long. seams J.A. DR. Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 9"  
 width of butt straps 18 1/8" Per centages of strength of longitudinal joint rivets 89.5 Working pressure of shell by plate 85.4  
 Size of manhole in shell 16"x12" Size of compensating ring in shell No. and Description of Furnaces in each  
 Material Steel Outside diameter 49 3/8" Length of plain part top / bottom Thickness of plates crown / bottom } 1 1/2"  
 No. of strengthening rings 2 Working pressure of furnace by the rules 242 Combustion chamber  
 Material Steel Thickness: Sides 3/16" Back 1/16" Top 1/16" Bottom 1/16" Pitch of stays to ditto: Sides 9x8" Back 9x8"  
 Working pressure by rules 225 Material of stays Steel Area at  
 Area supported by each stay 720" Working pressure by rules 253 End plates in steam space: Material Steel Thickness 1 1/4"  
 Working pressure by rules 225 Material of stays Steel Area at smallest part 7.240"  
 Material of Front plates at bottom Steel Thickness 1" Material of  
 Thickness 1 5/16" Greatest pitch of stays 14" Working pressure of plate by rules 225 Diameter of tubes 2 1/2"  
 Material of tube plates Steel Thickness: Front 1" Back 1 1/16" Mean pitch of stays 7 1/2" Pitch across wide  
 Working pressures by rules 233 Girders to Chamber tops: Material Steel Depth and thickness of  
 Length as per rule 31 1/4" Distance apart 9 1/2" Number and pitch of Stays in each 3-7 1/8"  
 Steam dome: description of joint to shell % of strength of joint  
 Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes  
 Working pressure of shell by rules Crown plates Thickness How stayed  
 Tested by Hydraulic Pressure to

**REHEATER.** Type \_\_\_\_\_ Date of Approval of Plan \_\_\_\_\_ Tested by Hydraulic Pressure to \_\_\_\_\_  
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler  
 Pressure to which each is adjusted \_\_\_\_\_ Is Easing Gear fitted \_\_\_\_\_  
 The foregoing is a correct description,  
A. Cairns Manufacturer.

Is the approved plan of boiler forwarded herewith \_\_\_\_\_  
 Total No. of visits \_\_\_\_\_  
 During progress of work in shops - - } while building.  
 During erection on board vessel - - - }

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)  
Boiler has been built under Special Survey. The materials and workmanship are sound & good. Has been efficiently installed and the safety valves adjusted under steam.

Survey Fee ... £ \_\_\_\_\_ : When applied for, ..... 19  
 Travelling Expenses (if any) £ \_\_\_\_\_ : When received, ..... 19

Committee's Minute \_\_\_\_\_  
 FRI. JUL. 30 1920  
Rice Ames & Thomas Field  
 Engineer Surveyor to Lloyd's Register of Shipping.

