

# REPORT ON BOILERS.

No. 11119

Received at London Office

Date of writing Report 19 When handed in at Local Office 5.10.21 19 Port of Middlesbrough  
 No. in Survey held at Stockton-on-Tees Date, First Survey 5th August Last Survey 30th September 1921  
 Reg. Book. on the "S.S. Asiatic" ex "Arthurian" (Number of Visits 12) } Gross  
 } Net  
 Master Built at Burntisland By whom built Burntisland S.B. Co. When built 1923  
 Engines made at Dunder By whom made James Cooper & Co. When made 1923  
 Boilers made at Stockton By whom made James Riley Bros. Ltd. (No. 5327) When made 1921  
 Registered Horse Power Owners W. H. Cockerline & Co Port belonging to Hull

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Sons  
 Letter for record (S) Total Heating Surface of Boilers 840 sq ft Is forced draft fitted no No. and Description of Boilers One single ended Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 30.9.21  
 No. of Certificate 6244 Can each boiler be worked separately  Area of fire grate in each boiler 30.5 sq ft No. and Description of safety valves to each boiler Two spring loaded Area of each valve 4.9 sq in Pressure to which they are adjusted 185 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 ~~stays~~ and bunkers 12" ~~Mano~~ dia. of boilers 10'-0" Length 10'-0"  
 Material of shell plates steel Thickness 27/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no  
 Descrip. of riveting: cir. seams 2 Riv. lap long. seams 2 Riv. 3 Riv.? Diameter of rivet holes in long. seams 13/16" Pitch of rivets 7"  
 Lap of plates or width of butt straps 13 1/2 x 1/2 Per centages of strength of longitudinal joint rivets 87.3 Working pressure of shell by rules 182 Size of manhole in shell 19" x 15" Size of compensating ring 7 x 1 in. 9 riv. No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 38" Length of plain part 71 1/2" Thickness of plates 3/4" 1 1/2" mean  
 Description of longitudinal joint weld No. of strengthening rings none Working pressure of furnace by the rules 215 Combustion chamber plates: Material steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 1 1/2" Pitch of stays to ditto: Sides 9 x 8 Back 8 1/2 x 8  
 Top 8 1/2 x 7 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 186 Material of stays steel Area at smallest part 1.73 Area supported by each stay 72 Working pressure by rules 192 End plates in steam space: Material steel Thickness 1"  
 Pitch of stays 19 x 12 1/2 How are stays secured nuts & washers Working pressure by rules 181 Material of stays steel Area at smallest part 5.05  
 Area supported by each stay 242 Working pressure by rules 217 Material of Front plates at bottom steel Thickness 1" Material of Lower back plate steel Thickness 1" Greatest pitch of stays 13 1/2 x 8 Working pressure of plate by rules 280 Diameter of tubes 3 1/2"  
 Pitch of tubes 4 1/2 x 4 1/2 Material of tube plates steel Thickness: Front 1" Back 3/4" Mean pitch of stays 10 1/2" Pitch across wide water spaces 13 1/2 x 8 1/2 Working pressures by rules 196 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 8 1/2 x 1 1/2 Length as per rule 30" Distance apart 8 3/4" Number and pitch of Stays in each 30 7 1/2"  
 Working pressure by rules 185 Steam dome: description of joint to shell none % of strength of joint  
 Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes  
 Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

UPERHEATER. Type \_\_\_\_\_ Date of Approval of Plan \_\_\_\_\_ Tested by Hydraulic Pressure to \_\_\_\_\_  
 Date of Test \_\_\_\_\_ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler \_\_\_\_\_  
 Diameter of Safety Valve \_\_\_\_\_ Pressure to which each is adjusted \_\_\_\_\_ Is Easing Gear fitted \_\_\_\_\_

FOR The foregoing is a correct description,  
 RILEY BROS. (BOILERMAKERS) LIMITED. Manufacturer.  
A. Wood SECRETARY

Dates of Survey During progress of Aug 5-9-23-26 Sep. 1-5-8-12-16-19-23-30. Is the approved plan of boiler forwarded herewith yes  
 while building (During erection on board vessel - - -) Total No. of visits 12

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey: is of good material and workmanship and on completion was tested by hydraulic pressure with satisfactory results. This boiler has been fitted on board in a satisfactory manner tried under steam & found efficient.

Survey Fee ... £ 5-12-0 When applied for Monthly 19...  
 Travelling Expenses (if any) £ : : When received, 19.....

W. Morrison J. Wells  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 30 JAN. 1923  
 Assigned

