

REPORT ON BOILERS.

No. 9619

Received at London Office SAT. 10 FEB. 1917

Date of writing Report 1917 When handed in at Local Office 7-2-17 1917 Port of Middlesbrough
 No. in Survey held at 101 No. in Survey held at Stockholm-on-Us Date, First Survey 6th Dec^r Last Survey 2nd Feb^r 1917
 Reg. Book. S.S. "Fiscus" (SS. No 183) (Number of Visits 7) Gross Tons }
 on the Master Built at Stockholm By whom built Craig Taylor & Co When built
 Engines made at By whom made When made
 Boilers made at Stockholm By whom made Mess^{rs} Riley Bros. Ltd (No 4064) When made 1917
 Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~ Manufacturers of Steel John Spencer & Sons.

(Letter for record (5)) Total Heating Surface of Boilers 1090 sq ft Is forced draft fitted no No. and Description of Boilers One single ended Working Pressure 120 Tested by hydraulic pressure to 240 Date of test 2-2-17
 No. of Certificate 5428 Can each boiler be worked separately Area of fire grate in each boiler 29 sq ft No. and Description of safety valves to each boiler 2 direct spring Area of each valve 5.94 sq in Pressure to which they are adjusted 125 lb
 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 1'-6" INSIDE dia. of boilers 11'-0" Length 10'-6"
 Material of shell plates Steel Thickness 2 1/32" Range of tensile strength 29-32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams 2-R. Lap long. seams 2B.-3R Diameter of rivet holes in long. seams 15/16" Pitch of rivets 6 3/4"
 Lap of plates or width of butt straps 12 1/2" x 5/8" Per centages of strength of longitudinal joint rivets 91.1 Working pressure of shell by rules 121 Size of manhole in shell 10 x 15" Size of compensating ring 4 1/2" M. M. E. No. and Description of Furnaces in each boiler 2 plain Material Steel Outside diameter 40" Length of plain part top 49 3/4" Thickness of plates crown 2 1/32" bottom 3 1/2" MEAN
 Description of longitudinal joint weld. No. of strengthening rings two Working pressure of furnace by the rules 132 Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 2 1/32" Pitch of stays to ditto: Sides 10 x 9" Back 9 x 9"
 Top 8 x 9 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 121 Material of stays Steel Area at smallest part 1.45 Area supported by each stay 81 Working pressure by rules 143 End plates in steam space: Material Steel Thickness 13/16"
 Pitch of stays 16 x 15 How are stays secured nuts & washers Working pressure by rules 130 Material of stays Steel Area at smallest part 2.84
 Area supported by each stay 240 Working pressure by rules 125 Material of Front plates at bottom Steel Thickness 13/16" Material of Lower back plate Steel Thickness 13/16" Greatest pitch of stays 14 x 9" Working pressure of plate by rules 165 Diameter of tubes 3 1/2"
 Pitch of tubes 4 3/4" x 4 3/4" Material of tube plates Steel Thickness: Front 13/16" Back 11/16" Mean pitch of stays 11" Pitch across wide water spaces 14" Working pressures by rules 120 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 7 x 1 1/2" Length as per rule 30" Distance apart 8" Number and pitch of Stays in each 2 @ 9"
 Working pressure by rules 128 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 None 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

SURVEY REQUEST NO. 1319 ATTACHED.

FOR THE FOREGOING IS A CONTRACT DESCRIPTION, RILEY BROS. (BOILERMAKERS) LIMITED Manufacturer.

Dates of Survey During progress of work in shops 1916. Dec 6-22. 1917. Jan 4. 9. 19. 26. Feb 2. Is the approved plan of boiler forwarded herewith yes
 while building During erection on board vessel Total No. of visits 7

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. The boiler is to be fitted on board at this port. The boiler has now been satisfactorily secured on board, examined under steam and safety valve adjusted

Survey Fee ... £ 3 - 13 - 0 When applied for Monthly a/c
 Travelling Expenses (if any) £ : : When received, 1917
 W. Morrison & Co. Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute 1 FRI. 25 MAY. 1917
 Assigned

