

## REPORT ON BOILERS.

No. 15896

Received at London Office

FRI. 1 JUL 1921

Date of writing Report 24<sup>th</sup> June 1921 When handed in at Local Office 29<sup>th</sup> June 1921 Port of WEST HARTLEPOOL  
 No. in Survey held at West Hartlepool Date, First Survey 30<sup>th</sup> May 1919 Last Survey 18<sup>th</sup> July 1919  
 Reg. Book. on the Boiler No. R 279. S. S. "HARTBRIDGE" (Number of Visits 14) Gross Tons 14 Net Tons 14  
 Master                      Built at                      By whom built                      When built                       
 Engines made at                      By whom made                      When made                       
 Boilers made at West Hartlepool By whom made Central Marine Eng. Works Ltd When made 1919  
 Registered Horse Power                      Owners                      Port belonging to                     

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel Stewarts & Lloyds  
 (Letter for record S) Total Heating Surface of Boilers 1714 sq ft Is forced draft fitted no No. and Description of Boilers One, single ended Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 18.7.19  
 No. of Certificate 3539 Can each boiler be worked separately yes Area of fire grate in each boiler 5.3 sq ft No. and Description of safety valves to each boiler 2 Cockburns high lift Area of each valve 5 fitted 9.8 sq ft 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 yes  
 Smallest distance between boilers or uptakes and bunkers or woodwork 24" Inten. dia. of boilers 14'-0" Length 10'-6"  
 Material of shell plates Steel Thickness 1 1/16" Range of tensile strength 27/30 Are the shell plates welded or flanged yes  
 Pitch of riveting: cir. seams SR Lap long. seams J.R. 8.3.3. Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 3/4"  
 plates or width of butt straps 18 1/2" Per centages of strength of longitudinal joint 88 Working pressure of shell by 184 lbs Size of manhole in shell 12" x 16" Size of compensating ring 2'-4" x 2'-8" No. and Description of Furnaces in each 3 Deightons Material Steel Outside diameter 3'-7 1/8" Length of plain part top 9" bottom 16" Thickness of plates crown 9" bottom 16"  
 Description of longitudinal joint welded No. of strengthening rings 1 Working pressure of furnace by the rules 204 Combustion chamber: Material Steel Thickness: Sides 3 1/2" Back 2 1/2" Top 2 1/2" Bottom 7" Pitch of stays to ditto: Sides 8 3/4" x 9 3/8" Back 8" x 9 3/8"  
2 3/4" x 9" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 181 Material of stays Steel Diameter at smallest part 1.787 Area supported by each stay 8" x 9 3/8" Working pressure by rules 214 End plates in steam space: Material Steel Thickness 1 1/4"  
 of stays 2 1/8" x 1 1/8" How are stays secured D. nuts Working pressure by rules 183 Material of stays Steel Diameter at smallest part 2.911  
 supported by each stay 19" x 20" Working pressure by rules 182 Material of Front plates at bottom Steel Thickness 3 1/2" Material of back plate Steel Thickness 1 5/16" Greatest pitch of stays 16" x 8 1/2" Working pressure of plate by rules 185 Diameter of tubes 3"  
 of tubes 4 1/4" x 4 1/8" Material of tube plates Steel Thickness: Front 3 1/2" Back 3 1/4" Mean pitch of stays 12 3/4" x 8 1/4" Pitch across wide spaces 13 3/4" Working pressures by rules 190 Girders to Chamber tops: Material Steel Depth and thickness of at centre 10" x 1 1/2" Length as per rule 34 13/32" Distance apart 9" Number and pitch of Stays in each Three 8 3/4"  
 Working pressure by rules 200 Superheater or Steam chest: how connected to boiler                      Can the superheater be shut off and the boiler worked                       
 tely                      Diameter                      Length                      Thickness of shell plates                      Material                      Description of longitudinal joint                      Diam. of rivet                       
 Pitch of rivets                      Working pressure of shell by rules                      Diameter of flue                      Material of flue plates                      Thickness                       
 ened 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 THE CENTRAL MARINE ENGINE WORKS,  
 (The foregoing is a correct description,  
                     Manufacturer.

During progress of 1919 May 30, June 2, 3, 5, 11, 16, 19, 20, 25, July 14, 15, 16 Is the approved plan of boiler forwarded herewith yes  
 work in shops 18  
 During erection on board vessel                      Total No. of visits 14

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This boiler has been built for Special Survey. The materials and workmanship are good. At completion it satisfactorily withstood the hydraulic test.

Survey Fee £ 5 : 14 : When applied for 29<sup>th</sup> 6/1921  
 Travelling Expenses (if any) £ : : When received 12.7.1921

Committee's Minute

Assigned

FRI 6 MAY 1921

Not for classing Committee

R. D. Philston © 2020  
Engineer Surveyor to Lloyd's Register of Shipping.Lloyd's Register  
Foundation

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