

REPORT ON BOILERS.

No. 10857

Received at London Office

SAT NOV. 16 1920

Date of writing Report 10 When handed in at Local Office 4.11.20 in Port of MIDDLESBRO

No. in Survey held at Stockton-on-Tees Date, First Survey 14th April Last Survey 28th Oct. 1920

Reg. Book. S.S. Allegheny (Number of Visits 13) } Gross Tons }
 on the S.S. Allegheny } Net Tons }

Master Chester Built at Ripham By whom built J. Chighton & Co When built 1921

Engines made at Chester By whom made Messrs J. Leighton & Co When made 1921

Boilers made at Stockton By whom made Thos Riley Bros Ltd (N^o 5247) When made

Registered Horse Power _____ Owners _____ Port belonging to _____

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

Letter for record (5) Total Heating Surface of Boilers 940 sq ft Is forced draft fitted _____ No. and Description of Boilers One single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 28.10.20

No. of Certificate 6169 Can each boiler be worked separately _____ Area of fire grate in each boiler 31 sq ft No. and Description of Safety valves to each boiler _____ Area of each valve _____ Pressure to which they are adjusted _____

Are they fitted with easing gear _____ In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler _____

Smallest distance between boilers or uptakes and bunkers or woodwork Inside Mean dia. of boilers 9'-3" Length 10'-9"

Material of shell plates steel Thickness 25/32" Range of tensile strength 28-32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams 2-R. lap long. seams 2-B-3 Riv Diameter of rivet holes in long. seams 15/16" Pitch of rivets 7"

Pitch of plates width of butt straps 13 1/2 x 23/32 Per centages of strength of longitudinal joint 94.1 Working pressure of shell by rules 86.57

Rules 180 Size of manhole in shell 19 1/2 x 15 1/2 Size of compensating ring 7 x 1" No. 911 No. and Description of Furnaces in each boiler 2 Morrison Material steel Outside diameter 34 1/2" Length of plain part 7'-1" Thickness of plates 7/8"

Description of longitudinal joint weld No. of strengthening rings ✓ Working pressure of furnace by the rules 184 Combustion chamber plates: Material steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 5/8" Pitch of stays to ditto: Sides 8 x 8" Back 9 x 8"

Top 8 1/2 x 8" 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 193 End plates in steam space: Material steel Thickness 1"

Pitch of stays 14 1/2" low are stays secured with washers Working pressure by rules 191 Material of stays steel Area at smallest part 5.05

Area supported by each stay 271 Working pressure by rules 194 Material of Front plates at bottom steel Thickness 1" Material of cover back plate steel Thickness 1" Greatest pitch of stays 14 1/2 x 8" Working pressure of plate by rules 194 Diameter of tubes 3"

Pitch of tubes 4 x 4" Material of tube plates steel Thickness: Front 1" Back 1/2" Mean pitch of stays 9 1/4" Pitch across wide water spaces 14" Working pressures by rules 183 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 7 x 1 1/2" Length as per rule 24" Distance apart 8 1/2" Number and pitch of Stays in each 2 @ 8"

Working pressure by rules 200 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 _____

SUPERHEATER. 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.

Dates: During progress of work in shops - - - Apr 14-23 May 7-11 Jul. 6-22 Sept 6-28-30 Is the approved plan of boiler forwarded herewith No

while building: During erection on board vessel - - - Oct. 1-8-18-28 Total No. of visits Sent with report No 10843

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

Survey Fee ... £ 3-3-0 When applied for, Monthly %19

Travelling Expenses (if any) £ _____ When received, _____ %19

Committee's Minute _____ Assigned _____

Wm Morrison Engineer Surveyor to Lloyd's Register of Shipping.

