

REPORT ON BOILERS.

No. 1253.

Date of writing Report July 15th 1917 Received at London Office JUN. 1918. 2845
 Date of writing Report July 15th 1917 When handed in at Local Office July 15th 1917 Port of Newport News
 No. in Survey held at Newport News 12 Date, First Survey July 16th Last Survey July 10th 1917
 Reg. Book. 1001
 NEW on the PUSEY & JONES HULL #482 S/S "PIQUA" (Number of Visits 19) Gross 2585.13 Tons Net 1469
 Master C. H. McLaughlin Built at Wilmington Del By whom built PUSEY & JONES When built 1918
 Engines made at Trenton By whom made De Laval Steam Turbine Co When made 1917
 Boilers made at NEWPORT NEWS By whom made NEWPORT NEWS S.P.I.C. When made 1917
 Registered Horse Power 233 Owners United States Shipping Board Port belonging to Wilmington Del.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel LUXENS I & S Co
 (Letter for record S) Total Heating Surface of Boilers 4258 Is forced draft fitted yes No. and Description of Boilers 2 SCOTCH S.E. Working Pressure 200 Tested by hydraulic pressure to 300 Date of test 10.7.17
 No. of Certificate 174 Can each boiler be worked separately yes Area of fire grate in each boiler 42.1 No. and Description of safety valves to each boiler Two direct spring Area of each valve 9.6 Pressure to which they are adjusted 200
 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 12" Mean dia. of boilers 13'0" Length 11'0"
 Material of shell plates S Thickness 1 5/16" Range of tensile strength 62,000/71,000 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams I.R.L. long. seams I.B.S. T.R. Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 7 5/8"
 Lap of plates or width of butt straps 20 1/2" Per centages of strength of longitudinal joint rivets 106.5 Working pressure of shell by rules 210 Size of manhole in shell 16 x 12 Size of compensating ring 38 x 34 No. and Description of Furnaces in each boiler 2. MORISON Material S Outside diameter 48 1/4" Length of plain part 10'0" Thickness of plates crown 5 1/8" bottom 5 1/8"
 Description of longitudinal joint WELD No. of strengthening rings 1 Working pressure of furnace by the rules 209 Combustion chamber plates: Material S Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 7/8" Pitch of stays to ditto: Sides 7 1/2 x 7 1/2" Back 7 1/2 x 7 1/2" Top 7 1/2 x 7 1/2" stays are fitted with nuts or riveted heads NUTS Working pressure by rules 240 Material of stays S Area at smallest part 1.475 Area supported by each stay 56.2 Working pressure by rules 210 End plates in steam space: Material S Thickness 1 3/32" Pitch of stays 4 x 16 How are stays secured I.N. Working pressure by rules 237 Material of stays S Area at smallest part 2.58 Area supported by each stay 224 Working pressure by rules 217 Material of Front plates at bottom S Thickness 3/4" Material of Lower back plate S Thickness 3/4" Greatest pitch of stays 13 Working pressure of plate by rules 400 Diameter of tubes 2 3/4" Pitch of tubes 3 3/4 x 4 Material of tube plates S Thickness: Front 3/4" Back 3/4" Mean pitch of stays 9 3/4" Pitch across wide water spaces 12 3/4" Working pressures by rules 279 Girders to Chamber tops: Material S Depth and thickness of girder at centre 2-10 x 3/4" Length as per rule 33" Distance apart 7" Number and pitch of Stays in each 3-7 1/2" Working pressure by rules 229 Steam dome: description of joint to shell yes % of strength of joint 100
 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 Foster Date of Approval of Plan Plan in New York Tested by Hydraulic Pressure to 600.
 Date of Test 21-3-17 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler yes.
 Diameter of Safety Valve 1 1/2" Pressure to which each is adjusted 208. Is Easing Gear fitted yes.
 The foregoing is a correct description,
 Newport News Shipbuilding & Dry Dock Co.
 By [Signature] Manufacturer.
 Assistant to the President.
 Dates of Survey: During progress of work in shops - - - 7.16, 7.21, 7.23, 7.27, 7.29, 7.31, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 8.10, 8.11, 8.12, 8.13, 8.14, 8.15, 8.16 Is the approved plan of boiler forwarded herewith yes
 while building: During erection on board vessel - - - 8.10 Total No. of visits 19

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boilers have been built under special survey in accordance with approved plan and Rules. The materials and workmanship are good and under the vessel eligible, in my opinion, to have the records - 2.S.B. 200 etc. in the Register Book.

Survey Fee ... \$52.75 When applied for, 23.7.1917
 Travelling Expenses (if any) £ : : When received, 29.7.18

Committee's Minute New York MAY 21 1918
 Assigned See Phl. Rpt 2845
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