

# REPORT ON BOILERS

ot. 5a.

Received at London Office

Date of writing Report 15/4/1913 When handed in at Local Office 16/4/1913 Port of New York April 5-1913  
 No. in Survey held at Morris Heights N.Y. Date, First Survey 25 Nov 1911 Last Survey 22 Feby. 1912  
 Reg. Book. Supp 2 on the SS. VESTA (Number of Visits 9) Gross 3663.7 Tons Net 2223.0  
 Master T. Fenlon Built at Camden By whom built New York S.S. Co. When built 1912  
 Engines made at Camden N.Y. By whom made New York S.S. Co. when made 1913-4  
 Donkey boilers made at Morris Heights N.Y. By whom made Gas Engine & Power Co. & C.L. Seabury & Co. when made 1912  
 Registered Horse Power 318 Owners Standard Oil Co. Port belonging to New York

**ULTITUBULAR BOILERS** — MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel Lukens Iron & Steel Co. Coatesville PA U.S.A.  
 Letter for record S Total Heating Surface of Boilers 1135 sq ft Is forced draft fitted no. No. and Description of Boilers one water tube Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 2/12/12  
 No. of Certificate 13 Can each boiler be worked separately Area of fire grate in each boiler 24.4 sq ft No. and Description of Safety Valves to each boiler one spring loaded Area of each valve 4.90 sq in Pressure to which they are adjusted 200 lbs  
 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 12' 0" Mean dia. of boiler Drums upper 20 3/8" lower 10 7/8" Length 7' 2"  
 Material of shell plates Steel Thickness upper 5/8" lower 3/8" Range of tensile strength 26-30 Are the shell plates welded or flanged  
 Description of riveting: cir. seams Single Riveted long. seams Double Riv Lap Diameter of rivet holes in long. seams 15/16" Pitch of rivets 3"  
 Width of plates or width of butt straps 4 1/2" Per centages of strength of longitudinal joint sides 62.15% Working pressure of shell by rules 406 lbs plates 68.75% 389 lbs Size of manhole in shell 9" x 14" Size of compensating ring plate flanged No. and Description of Furnaces in each boiler  
 Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules Combustion chamber  
 Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back  
 If stays are fitted with nuts or riveted heads Working pressure by rules Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space: Material S Thickness 9 1/2"  
 How are stays secured Working pressure by rules 364 lbs Material of stays Diameter at smallest part  
 Area supported by each stay Working pressure by rules Material of Front plates at bottom Drums cast Steel Thickness 3/8" Material of doors  
 Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes 1"  
 Thickness: Front Back Mean pitch of stays Pitch across wide  
 Working pressures by rules Girders to Chamber tops: Material Depth and thickness of  
 Length as per rule Distance apart Number and pitch of Stays in each  
 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked  
 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  
 Stiffened 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

The foregoing is a correct description,  
 H. T. Woolson for the Company Manufacturer.  
 Gas Engine & Power Co. & C.L. Seabury & Co.

Dates During progress of work in shops 1911-Nov. 25 Dec 14 30 - 1912 - Feb 14 22 Is the approved plan of boiler forwarded herewith yes  
 While building During erection on board vessel Jan 27-31 Feb 17 April 5-1913 Total No. of visits 9

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c. This water tube boiler has been built under special survey and to approved plans. The workmanship and materials are of good quality, eligible for record + NDB 1912 upon completion of survey. Boiler to be securely fitted on

wardly building by New York Shipbuilding Co. Philadelphia. Safety valves to be adjusted under steam easing gear fitted, not completed, fitted for liquid fuel. See Phil report no 2009  
 Survey Fee \$25 : When applied for, 15 Mar 1912  
 Travelling Expenses (if any) \$2.50 : When received, 28 " 1912

awmurray R. Hig.  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.  
 FRI. SEP. 12. 1913

Committee's Minute FRI. MAY 9 - 1913  
 assigned See minute on D. Entry



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