

# REPORT ON BOILERS.

No. 22383

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ing Report 10 When handed in at Local Office 19 Port of New York  
 Survey held at Aspen N.Y. Date, First Survey 2 June Last Survey 4 Dec 1922  
 on the New Boilers for the S.S. J. L. Luckenbach (Number of Visits 24) Gross 8739  
 Built at Chester Pa. By whom built Sun S. B. Co. Tons Net 5453  
 made at Trenton N.J. By whom made De Laval Steam Turbine Co. When built 1919-3  
 made at Aspen N.Y. By whom made Federal S. B. Co. When made 1922  
 d Horse Power 1032 Owners Luckenbach S. S. Co. Inc. Port belonging to New York

**TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.** Manufacturers of Steel Lukens Steel Co.  
 for record 3 Total Heating Surface of Boilers 12480 Is forced draft fitted Yes No. and Description of  
Three Single Ended Working Pressure 225 lbs Tested by hydraulic pressure to 338 lbs Date of tests 16-11-22  
465 Can each boiler be worked separately Yes Area of fire grate in each boiler 493 1/2 No. and Description of  
466 valves to each boiler 2 Direct Springs Area of each valve 15.9 sq Pressure to which they are adjusted 225 lb.  
 fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No  
 distance between boilers or uptakes and bunkers or woodwork 9 ft. Mean dia. of boilers 14'-6" Length 13'-0"  
 of shell plates Steel Thickness 2" Range of tensile strength 60000-100000 Are the shell plates welded or flanged No  
 of riveting: cir. seams D.R. long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 11"  
 plates width of butt straps 2 1/4" Per centages of strength of longitudinal joint 105.0 Working pressure of shell by  
28 lbs Size of manhole in shell 16 x 12" Size of compensating ring 34 x 42 x 2" No. and Description of Furnaces in each  
Corrugated Material Steel Outside diameter 45 1/2" Length of plain part 10' Thickness of plates 3"  
 ion of longitudinal joint weld No. of strengthening rings none Working pressure of furnace by the rules 233 lbs Combustion chamber  
 Material Steel Thickness: Sides 2 3/8" Back 1 1/8" Top 2 3/8" Bottom 1 1/8" Pitch of stays to ditto: Sides 4 1/2 x 8" Back 8 x 4"  
8" stays are fitted with nuts or riveted heads Nuts Working pressure by rules 226 lbs Material of stays W. Iron Area at  
 part 1.81 sq Area supported by each stay 60 sq Working pressure by rules 254 lbs End plates in steam space: Material Steel Thickness 1 3/8"  
 stays 18 x 15" How are stays secured Nuts Working pressure by rules 240 lbs Material of stays Steel Area at smallest part 4.04 sq  
 supported by each stay 240 sq Working pressure by rules 288 lbs Material of Front plates at bottom Steel Thickness 1 3/8" Material of  
 back plate Steel Thickness 1 1/8" Greatest pitch of stays 14 1/8 x 10" Working pressure of plate by rules 290 lbs Diameter of tubes 2 1/2"  
 tubes 3 3/4 x 3 3/8" Material of tube plates Steel Thickness: Front 1 3/8" Back 1 1/8" Mean pitch of stays 9.25" Pitch across wide  
 spaces 14 1/8" x 4 1/2" Working pressures by rules 232 lbs Girders to Chamber tops: Material Steel Depth and thickness of  
 at centre 11 x 1 1/2" Length as per rule 3'-9 1/4" Distance apart 4 1/8" Number and pitch of Stays in each 4 @ 8"  
 pressure by rules 310 lbs Steam dome: description of joint to shell none % of strength of joint ✓  
 Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet holes ✓  
 rivets ✓ Working pressure of shell by rules ✓ Crown plates ✓ Thickness ✓ How stayed ✓  
**HEATER.** Type None Date of Approval of Plan ✓ Tested by Hydraulic Pressure to ✓  
 Test ✓ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler ✓  
 of Safety Valve ✓ Pressure to which each is adjusted ✓ Is Easing Gear fitted ✓

The foregoing is a correct description,

Edmund Shipbuilding Co., 10 W. 11th, C. E. Sigs. Manufacturer.

During progress of 1921: Jan 28 Feb 3 5 12 18 28 Aug 10 17 25 Sep Is the approved plan of boiler forwarded herewith ✓  
 work in shops - - -  
 During erection on: 5 13 14 20 27 Oct 9 15 23 24 31 Nov 2 9 16 22 25 Dec 4 Total No. of visits 24  
 board vessel - - -

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) These Boilers have been built  
des special survey and in accordance with the approved plans.  
material and workmanship are good, These Boilers have been forwarded  
Baltimore for installation on board Vessel. Boilers now installed at  
Baltimore please see Baltimore Report No 3395 - H.A. Stewart

Survey Fee ... \$300 : When applied for, 19 Jan 1923  
 Travelling Expenses (if any) £ : : When received, 12/21 1923

Committee's Minute New York MAR 6 - 1923  
See Report Balt. 3395  
William Butler 19 1923  
 Engineer Surveyor to Lloyd's Register of Shipping.

