

SAT. OCT 26 1912

Rpt. 5a.

REPORT ON BOILERS.

No. 9369
PHILADELPHIA

Received at London Office

Date of writing Report 11. 10 1912 When handed in at Local Office 12. 10. 1912 Port of New York. *Phil*
 No. in Survey held at Morris Heights N.Y. Date, First Survey 25 Nov 1911 Last Survey 22 Feb 1912
 Reg. Book. 173 on the S.S. RAYO (Number of Visits 5) Gross 3663-78 Net 2223-00
 Master S. Fenlon Built at Camden By whom built New York S.B. Co. When built 1912-10
 Engines made at Camden By whom made New York S.B. Co. when made 1912-10
 Rivets DONKEY Boilers made at Morris Heights N.Y. By whom made Gas Engines & Power Co. + C.L. Seabury res. when made 1912
 Registered Horse Power 318 Owners Standard Oil Co Port belonging to New York

MULTITUBULAR BOILERS ~~MAN, ROSSMAN OR, DONKEY.~~ W.T. 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 Date of test 21/2/12

No. of Certificate 14 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 4.9 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 20" Mean dia. of boiler upper 20 3/8" Length 7'-2"
 Material of shell plates S. Thickness upper 7/8" Range of tensile strength 26-30 tons Are the shell plates welded or flanged
 lower 3/8"

Descrip. of riveting: cir. seams Single Riv. long. seams Double Riv. lap Diameter of rivet holes in long. seams 15/16" Pitch of rivets 3"
 Lap of plates or width of butt straps 4 1/2" Per centages of strength of longitudinal joint rivets 62.15% Working pressure of shell by rules 406 lbs Size of manhole in shell 9" x 14" tubes 50.38%
 2 389 lbs Size of compensating ring flanged plates No. and Description of Furnaces in each boiler

Material Outside diameter Length of plain part Thickness of plates crown bottom
 Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back

Top 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 Steel Thickness 9/16"
 Pitch of stays 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 8" Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes - 1"

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

Working pressure by rules Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of ricket holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If 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. J. Woolson for the company Manufacturer. Gas Engine Power Co. C.L. Seabury Co.

Is the approved plan of boiler forwarded herewith yes
 Total No. of visits 9

Dates of Survey During progress of work in shops 1911- Nov 25. Dec 14 30 1912 Feb 14 22
 while building During erection on board vessel June 19. 25. July 24. Oct. 1911

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. this water tube boiler has been built under special survey, to approved plans. The workmanship and materials are of good quality, eligible for Record + R.D.B 1912 upon completion of Survey. To complete Survey. - Boiler to be securely fitted on board vessel, building by New York S.B. Co. Philadelphia. Safety valves to be adjusted under steam. Easing gear fitted.

Survey Fee \$25 : When applied for, 15. 3. 1912
 Travelling Expenses (if any) Cable \$ 2.50 : When received, 28. 3. 1912
 Note see other side.

Committee's Minute FRI. NOV. 22 1912
 Assigned FRI. DEC. 20 1912
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



W1564-0052

This water-tube boiler has been securely fitted
on board & connected up in place. Safety valve has
been adjusted under steam to 200 lbs, casing gear fette
found satisfactory. ✓

Robert H. Haig

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