

REPORT ON BOILERS.

No. 3425

Date of writing Report 20-3-

1918.

When handed in at Local Office 24-3-18

Received at London Office

Port of Philadelphia, Pa.

No. in Survey held at East Stroudsburg, Pa. Date, First Survey 5th Dec 1917 Last Survey 18-3-1918.

Reg. Book.

on the Donkey boiler for Pennsylvania S B Co. S.S. "Sharon"

(Number of Visits 4)

Gross

Tons

Net

Master Built at Gloucester. By whom built Pennsylvania S B Co. When built 1918.

Engines made at Schenectady By whom made General Electric Company When made 1918

Boilers made at E. Stroudsburg. By whom made International Boiler Works. When made 1918.

Registered Horse Power Owners Emergency Fleet Corporation Port belonging to Gloucester City

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~ Manufacturers of Steel Works, Coatesville, Pa.

(Letter for record S) Total Heating Surface of Boilers 658.3. Is forced draft fitted no. No. and Description of Boilers One, Single Ended. Working Pressure 125 Tested by hydraulic pressure to 190 Date of test 18-3-18.

No. of Certificate 144. Can each boiler be worked separately. Area of fire grate in each boiler 24.5. No. and Description of safety valves to each boiler 2, direct spring loaded. Area of each valve 3.14. Pressure to which they are adjusted 125 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 between deck Mean dia. of boilers 9'-6 5/16" Length 9'-0".

Material of shell plates S. Thickness 2 1/32" Range of tensile strength 28/32. Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams D.L. long. seams DRDBS. Diameter of rivet holes in long. seams 1 1/32" Pitch of rivets 5 11/16".

Top of plates or width of butt straps 11". Per centages of strength of longitudinal joint rivets 93.0 plate 81.9 Working pressure of shell by rules 133.

Size of manhole in shell 12"x16" Size of compensating ring flanged 2'-10"x2'-6". No. and Description of Furnaces in each boiler 2, Morrison. Material S. Outside diameter 3'-0 3/4". Length of plain part top bottom Thickness of plates crown bottom 3/8".

Description of longitudinal joint welded. No. of strengthening rings Working pressure of furnace by the rules 134. Combustion chamber plates: Material S. Thickness: Sides 1 1/32" Back 1/2" Top 1 1/32" Bottom 1 1/32". Pitch of stays to ditto: Sides 6 5/8" Back 4"x6 3/4".

Top 6 1/8"x4 1/2". If stays are fitted with nuts or riveted heads both. Working pressure by rules 135 Material of stays S. Area at smallest part 1461.

Area supported by each stay 44.25 Working pressure by rules 144 End plates in steam space: Material S Thickness 2 5/32".

Pitch of stays 4"x14". How are stays secured D. nuts. Working pressure by rules 139 Material of stays S. Area at smallest part 3-14-16.

Area supported by each stay 196. Working pressure by rules 166. Material of Front plates at bottom Steel. Thickness 2 5/32". Material of lower back plate 2 5/32" S. Thickness 2 5/32". Greatest pitch of stays 4"x6 3/4". Working pressure of plate by rules 350 Diameter of tubes 3" O.D.

Pitch of tubes 4 1/4"x4". Material of tube plates S. Thickness: Front 2 5/32" Back 9/16". Mean pitch of stays 8 1/2"x16". Pitch across wide water spaces 8".

Working pressures by rules 292. Girders to Chamber tops: Material S. Depth and thickness of order at centre 2- 4"x5/8" Length as per rule 2'-4". Distance apart 6 7/8". Number and pitch of Stays in each 3-4 1/2".

Working pressure by rules 165. Steam dome: description of joint to shell. % 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

PERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description, The International Boiler Works, Manufacturer.

Is the approved plan of boiler forwarded herewith

Total No. of visits

During progress of work in shops 5-12-14, 1-2-18, 13-2-18, 18-3-18.

During erection on board vessel

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boiler has been built under special survey, in accordance with the approved plan, the workmanship and materials are good. The boiler has been shipped to Gloucester, N.J. to be fitted on board the vessel.

Survey Fee ... £ \$ 25.00. When applied for, 24-3-1918.

Travelling Expenses (if any) £ \$ 15.00. When received, July 31st 1918.

Committee's Minute New York SEP 23 1919

Signed See other Report Phil 3425

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