

REPORT ON BOILERS.

No. 509

MON. 20 AUG. 1917

REC'D NEW YORK

Received at London Office

Date of writing Report

When handed in at Local Office

Port of *Seattle, Wash U.S.A.*

No. in Survey held at

Date, First Survey *March 29th* Last Survey *June 8th* 1917

Reg. Book.

EST. ENTRY on the *Steel Screw Steamer JOSIAH MACY* (Builder's No. 4)Gross
Tons
Net

Master

Built at *Seattle*By whom built *Skinner & Eddy Corporation* When built *1917*Engines made at *Schenectady N.Y.*By whom made *General Electric Company* when made *1917*Boilers made at *Seattle*By whom made *Commercial Boiler Works* when made *1917*Registered Horse Power *2500*Owners *Standard Oil Co. of New Jersey* Port belonging to *Bayonne N.J.*MULTITUBULAR BOILERS — ~~MAIN, AUXILIARY OR~~ DONKEY. — Manufacturers of Steel *North Bros.*Letter for record *New York May 25 1916* Total Heating Surface of Boilers *1303 sq ft* Is forced draft fitted *No* No. and Description ofboilers *One Scotch Marine Donkey Boiler* Working Pressure *180* Tested by hydraulic pressure to *270 lbs* Date of test *April 26*No. of Certificate Can each boiler be worked separately *—* Area of fire grate in each boiler *42 sq ft* No. and Description ofsafety valves to each boiler *2 Ashton 2 1/2" dia* Area of each valve *4.9 sq in* Pressure to which they are adjusted *180 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* *Return valve fitted*Smallest distance between boilers' or uptakes and bunkers *24" Outside* Mean dia. of boilers *11'-1 1/4"* Length *11'-0"*Material of shell plates *Steel* Thickness *1 1/4"* Range of tensile strength *60,000* Are the shell plates welded or flanged *No*Descrip. of riveting: cir. seams *double* long. seams *triple* Diameter of rivet holes in long. seams *1 1/2"* Pitch of rivets *7 1/2"*Width of butt straps *16"* Per centages of strength of longitudinal joint rivets *86.5* Working pressure of shell by plate *85.8*

No. and Description of Furnaces in each

boiler *2 Morrison* Material *Steel* Outside diameter *44.06"* Length of plain part *164 x 27 x 30* Thickness of plates *17/32"*Description of longitudinal joint *—* No. of strengthening rings *—* Working pressure of furnace by the rules *185* Combustion chamberplates: Material *Steel* Thickness: Sides *4 1/2"* Back *4 1/2"* Top *4 1/2"* Bottom *1 1/2"* Pitch of stays to ditto: Sides *8" x 8"* Back *8" x 8"*Top *8" x 8"* If stays are fitted with nuts or riveted heads *Top nuts* Working pressure by rules *189* Material of stays *Steel* Diameter atsmallest part *1 1/2"* Area supported by each stay *64 sq in* Working pressure by rules *207* End plates in steam space: Material *Steel* Thickness *1 1/2"*Pitch of stays *15" x 16"* How are stays secured *Double nuts* Working pressure by rules *198* Material of stays *Steel* Diameter at smallest part *2 7/8"*Area supported by each stay *240 sq in* Working pressure by rules *281* Material of Front plates at bottom *Steel* Thickness *3/4"* Material oflower back plate *Steel* Thickness *3/4" + 5/8" double* Greatest pitch of stays *14"* Working pressure of plate by rules *257* Diameter of tubes *3"*Pitch of tubes *4"* Material of tube plates *Steel* Thickness: Front *3/4" + 5/8" double* Back *3/4"* Mean pitch of stays *10"* Pitch across widewater spaces *13"* Working pressures by rules *239* Girders to Chamber tops: Material *Steel* Depth and thickness oforder at centre *9 1/4" x 3/4"* Length as per rule *32"* Distance apart *8"* Number and pitch of Stays in each *3-8" centres*Working pressure by rules *222* Superheater or Steam chest: how connected to boiler *None* Can the superheater be shut off and the boiler worked

separately

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

Skinner & Eddy Corp. Shipbuilders
*by E. N. McCallister*The foregoing is a correct description,
Commercial Boiler Works
J. A. Fox Manufacturer.Dates During progress of work in shops - - *March 29 - April 3 - 14 - 26*
while During erection on board vessel - - - *May 14 - 26 - June 8*

Is the approved plan of boiler forwarded herewith

Total No. of visits *7*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

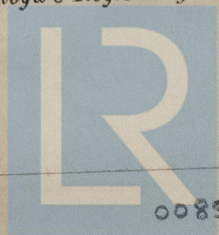
The donkey boiler and mountings have been constructed and installed under special survey and the boilers built in accordance with the approved plan; the material and workmanship are both of good quality; boilers tested by hydraulic pressure to 270 lbs and safety valves adjusted under steam at 180 lbs and found satisfactory.

Survey Fee *See report on Machinery* When applied for, *—* 19.
Travelling Expenses (if any) £ *—* When received, *—* 19.*James Fowler*
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

New York JUL 31 1917

Assigned

See other report

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Lloyd's Register
Foundation

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