

# REPORT ON BOILERS.

No. 20087  
WED. 6 APR. 1921

Received at London Office

Date of writing Report *12 March 1921* When handed in at Local Office *18 March 1921* Port of *New York*

No. in Survey held at *Kearny, New Jersey* Date, First Survey *1921* Last Survey *191*

Reg. Book. on the *Twin Screw Steel Oil Tanker WALTER JENNINGS.* (Number of Visits) Gross Tons *10800* Net Tons *8133*

Master *W. J. Healy* Built at *Kearny, N. J.* By whom built *Federal Ship Building Co.* When built *1921*

Engines made at *Kearny, N. J.* By whom made *Federal Ship Building Co.* When made *1921*

Boilers made at *Kearny, N. J.* By whom made *Federal Ship Building Co.* When made *1921*

Registered Horse Power *3500 I.H.P.* Owner *Standard Oil Co. of New Jersey* Port belonging to *New York*

MULTITUBULAR BOILERS - ~~MAIN~~ ~~AUXILIARY~~ ~~OR~~ DONKEY. - Manufacturers of Steel *Carnegie Steel Co.*

Letter for record *S* Total Heating Surface of Boilers *1234 sq ft* Is forced draft fitted *No.* No. and Description of Boilers *One - Two Furnace Scotch Working Pressure 180#* Tested by hydraulic pressure to *270#* Date of test *13-11-20*

No. of Certificate *389* Can each boiler be worked separately  Area of fire grate in each boiler *39 sq ft* No. and Description of Safety valves to each boiler *One - 2 1/2" Twin Spring* Area of each valve *4.9 sq in* Pressure to which they are adjusted *180#*

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 boiler uptakes and bunkers - *woodwork 6 ft.* Inside diam. of boilers *10'-11"* Length *10'-10 1/2"*

Material of shell plates *S* Thickness *1"* Range of tensile strength *26800 lbs* Are the shell plates welded or flanged *No.*

Description of riveting: cir. seams *D.R. LAP.* long. seams *TR/DBS* Diameter of rivet holes in long. seams *1 3/16"* Pitch of rivets *6 3/8"*

Width of butt straps *17 3/4"* Percentages of strength of longitudinal joint rivets *103.2* Working pressure of shell by rules *183#* Size of manhole in shell *16" x 12"* Size of compensating ring *34" x 30"* No. and Description of Furnaces in each boiler *2. Morrison* Material *S* Outside diameter *43 1/16"* Length of plain part *top 17 1/2"* Thickness of plates *crown 17/32"* bottom *17/32"*

Description of longitudinal joint *Weld* No. of strengthening rings  Working pressure of furnace by the rules *204#* Combustion chamber plates: Material *S* Thickness: Sides *5/8"* Back *5/8"* Top *5/8"* Bottom *3/4"* Pitch of stays to ditto: Sides *7 x 7"* Back *7 x 7 1/4"*

If stays are fitted with nuts or riveted heads *Not Riveted* Working pressure by rules *top 276#* Material of stays *S* Area at smallest part *1.52 sq in* Area supported by each stay *49 sq in* Working pressure by rules *Side 248#* End plates in steam space: Material *S* Thickness *29/32"* Pitch of stays *14 x 14"* How are stays secured *D. NOTS* Working pressure by rules *Back 240* Material of stays *S* Area at smallest part *3.97 sq in*

Area supported by each stay *196 sq in* Working pressure by rules *211#* Material of front plates at bottom *S* Thickness *3/4"* Material of lower back plate *S* Thickness *3/4"* Greatest pitch of stays *12 1/4 x 7 1/4"* Working pressure of plate by rules *302#* Diameter of tubes *2 3/4"*

Pitch of tubes *4 x 3 3/4"* Material of tube plates *S* Thickness: Front *3/4"* Back *3/4"* Mean pitch of stays *11 1/4 x 8"* Pitch across wide inter spaces *12 3/4"* Working pressures by rules *279#* Girders to Chamber tops: Material *S* Depth and thickness of girder at centre *10" x 5 1/8"* Length as per rule *33"* Distance apart *7"* Number and pitch of Stays in each *4 @ 7"*

Working pressure by rules *236#* Steam dome: description of joint to shell *None* % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type *None* 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,  
*Federal Shipbuilding Co., Bldg. Maint., Ch. Eng., Manufacturer.*

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *The above donkey boiler has been constructed under Special Survey in accordance with the approved plan. The material & workmanship, so far as can be seen are sound & good & proved satisfactory on test. It is eligible, in my opinion to the notation in the Register Book.*

Survey Fee ... £ : When applied for, 191  
Travelling Expenses (if any) £ : When received, 191

Committee's Minute *New York MAR 22 1921*  
Signed *See other Rpt NY 20087*

*J. Hockhart*  
Engineer Surveyor to Lloyd's Register of Shipping.  
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