

## REPORT ON BOILERS.

No. *13917*

REC'D NEW YORK

Received at London Office

MON. 16 JUL. 1917

Date of writing Report

191

When handed in at Local Office

191

Port of

*New York*No. in  
Reg. Book.

Survey held at

*Courgo, N.Y.*

Date, First Survey

Last Survey

191

on the *Barge Redoto**Merrill Stevens Co. N° 92*

(Number of Visits)

Gross *296*Tons } Net *153*When built *1917*Master *R. J. Boghlan*Built at *Jacksonville Fla*By whom built *Merrill Stevens Co.*Engines made at *Jacksonville Fla.*By whom made *Merrill Stevens Co.*When made *1917*Boilers made at *Courgo, N.Y.*By whom made *Kingsford Fdy. Machine Co.*When made *1917*Registered Horse Power *280*Owners *Boston Molasses Co*Port belonging to *Boston, Mass.*

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel *Worth Bros. Coy.*(Letter for record *(a)*) Total Heating Surface of Boilers *992.6 sq ft* Is forced draft fitted *No* No. and Description ofBoilers *One cyl. mult. single ended* Working Pressure *140 lbs* Tested by hydraulic pressure to *210 lbs* Date of test *19.3.17*No. of Certificate *20* Can each boiler be worked separately *✓* Area of fire grate in each boiler *33 sq ft* No. and Description ofsafety valves to each boiler *Two Longren* Area of each valve *3 1/2 dia* Pressure to which they are adjusted *140 lbs*Are they fitted with easing gear *Yes* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *✓*Smallest distance between boilers or uptakes and bunkers or woodwork *18"* Mean dia. of boilers *9'-0"* Length *11'-6"*Material of shell plates *S.* Thickness *3/4"* Range of tensile strength *60,000 to 71,680 lbs* Are the shell plates welded or flanged *No*Descrip. of riveting: cir. seams *S. R.* long. seams *D. S. D. R.* Diameter of rivet holes in long. seams *15/16"* Pitch of rivets *5 1/4"*Width of butt straps *9 1/2"* Per centages of strength of longitudinal joint *89* Working pressure of shell byrules *140* Size of manhole in shell *16" x 12"* Size of compensating ring *4 7/8" x 9"* No. and Description of Furnaces in eachboiler *2 wrought* Material *S.* Outside diameter *3'-4 3/8"* Length of plain part *top 1/2"* Thickness of plates *crown 7/16"*Description of longitudinal joint *Weld* No. of strengthening rings *✓* Working pressure of furnace by the rules *141* Combustion chamberplates: Material *S.* Thickness: Sides *3/2"* Back *1/2"* Top *1/2"* Bottom *3/2"* Pitch of stays to ditto: Sides *7" x 7 1/4"* Back *7" x 7 1/4"*Top *7" x 7 1/2"* If stays are fitted with nuts or riveted heads *R. H.* Working pressure by rules *192* Material of stays *I* Area atsmallest part *1/26 sq ft* Area supported by each stay *5 1/2 sq ft* Working pressure by rules *142* End plates in steam space: Material *S.* Thickness *1/2"*Pitch of stays *15"* How are stays secured *STAYS D.N. BRACES RIV.* Working pressure by rules *158* Material of stays *I* Area at smallest part *3.94 sq ft*Area supported by each stay *16.5 sq ft* Working pressure by rules *249* Material of Front plates at bottom *S.* Thickness *1/2"* Material ofLower back plate *S.* Thickness *1/2"* Greatest pitch of stays *7" x 7 1/4"* Working pressure of plate by rules *237* Diameter of tubes *3"*Pitch of tubes *4" x 4 1/4"* Material of tube plates *S.* Thickness: Front *1/2"* Back *1/2"* Mean pitch of stays *8 1/4"* Pitch across widewater spaces *✓* Working pressures by rules *✓* Girders to Chamber tops: Material *S.* Depth and thickness ofgirder at centre *7 1/2" - 1 5/16"* Length as per rule *2'-4"* Distance apart *7 1/2"* Number and pitch of Stays in each *3'-8"*Working pressure by rules *179* 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 *✓*SUPERHEATER. Type *✓* Date of Approval of Plan *✓* Tested by Hydraulic Pressure to *✓*Date of Test *✓* Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler *✓*Diameter of Safety Valve *✓* Pressure to which each is adjusted *✓* Is Easing Gear fitted *✓*

The foregoing is a correct description,

*Robert Joy Supt* Manufacturer.*Kingsford Fdy. Machine Works*Is the approved plan of boiler forwarded herewith *Yes*Total No. of visits *No. plan approved*Dates of Survey *During progress of work in shops - - -**while building* *During erection on board vessel - - -*GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This boiler has been constructed**under special survey in accordance with the Rules and the approved**plan. The materials and workmanship are sound and good.*Survey Fee *£ 25.00* When applied for *25 Mar 1917*Travelling Expenses (if any) *£ 44.75* When received *19 May 1917*Committee's Minute *New York JUN 12 1917*Assigned *See Jacksonville Rpt. No. 7*

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register

Foundation