

REPORT ON BOILERS.

No. *V13917*

REC'D NEW YORK *June 1. 1917*

Received at London Office

MON. 16 JUL. 1917

Date of writing Report *1917* When handed in at Local Office *1917* Port of *New York*

No. in Survey held at *Courgo, N.Y.* Date, First Survey *1917* Last Survey *1917*

Reg. Book. *on the Barge Bedrito* *Merrill Stevens Co. N° 92.* (Number of Visits) *296*

Master *R.J. Boghlan* Built at *Jacksonville Fla* By whom built *Merrill Stevens Co.* Tons } Gross *296*

Engines made at *Jacksonville Fla.* By whom made *Merrill Stevens Co.* When built *1917* } Net *153*

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 DONKEYS.—Manufacturers of Steel *Worth, Juss. Coy.*

(Letter for record *(a)*) Total Heating Surface of Boilers *992.6 sq ft* Is forced draft fitted *No* No. and Description of Boilers *One cyl. mult. single ended* Working Pressure *140 lbs.* Tested by hydraulic pressure to *210 lbs.* Date of test *19.5.17*

No. of Certificate *20.* Can each boiler be worked separately *✓* Area of fire grate in each boiler *33 sq ft* No. and Description of safety 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"*

Material of plates or width of butt straps *9 1/4"* Per centages of strength of longitudinal joint *89* Working pressure of shell by rules *140.* Size of manhole in shell *16" x 12"* Size of compensating ring *4 7/8" x 9"* No. and Description of Furnaces in each boiler *2 corrugated* Material *S.* Outside diameter *3'-4 3/8"* Length of plain part *top ✓ bottom Y* Thickness of plates *2 1/2"*

Description of longitudinal joint *Weld.* No. of strengthening rings *✓* Working pressure of furnace by the rules *141.* Combustion chamber plates: Material *S.* Thickness: Sides *1 1/2"* Back *1 1/2"* Top *1 1/2"* Bottom *1 1/2"* 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 at smallest part *1.267* Area supported by each stay *5 1/2"* Working pressure by rules *142* End plates in steam space: Material *S.* Thickness *1 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 *3.940*

Area supported by each stay *165.0"* Working pressure by rules *249* Material of Front plates at bottom *S.* Thickness *1 1/2"* Material of Lower back plate *S.* Thickness *1 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 1/2"* Back *1 1/2"* Mean pitch of stays *8 1/4"* Pitch across wide water spaces *✓* Working pressures by rules *✓* Girders to Chamber tops: Material *S.* Depth and thickness of girder 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 *3-7"*

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.* No. plan approved *✓*

Dates of Survey } During progress of work in shops - - } while building } During erection on board vessel - - - }

Total No. of visits *✓*

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) *£ 4.75* When received *19 May 1917*

Committee's Minute *New York JUN 12 1917*

Assigned *See Jacksonville Rpt. no. 7*

Signature: *A.R. Dodd* Engineer Surveyor to Lloyd's Register of Shipping.

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