

REPORT ON BOILERS.

No. 28743

Date of writing Report **3 Oct 1927** When handed in at Local Office **3 Oct 1927** Port of **New York** Received at London Office **13 MAY 1928**

No. in Survey held at **Schenectady N.Y.** Date, First Survey **13 Sept.** Last Survey **30 Sept 1927**

Reg. Book. on the **stern wheel steamer (Marietta Mfg Co #210)** (Number of Visits) Gross Tons } Net

Master Built at **Marietta, O.** By whom built **Marietta Manufacturing Co.** When built **1927**

Engines made at **Marietta, O.** By whom made **a** When made **1927**

Boilers made at **Schenectady N.Y.** By whom made **American Locomotive Co.** When made **1927**

Registered Horse Power Owners **International Petroleum Co.** Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **Lukens Steel Co.**

(Letter for record (Y)) Total Heating Surface of Boilers **4134 sq ft** Is forced draft fitted

Boilers **3 Locomotive type 3B** Working Pressure **225 lbs** Tested by hydraulic pressure to **338 lbs** Date of test **30/9/27**

No. of Certificate **511** Can each boiler be worked separately **Oil FIRED** No. and Description of safety valves to each boiler

Area of fire grate in each boiler **Oil FIRED** No. and Description of Area of each valve Pressure to which they are adjusted

Are they fitted with easing gear 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 Mean dia. of boilers **BARREL 63 5/8"** Length **22'-0" OVER ALL**

Material of shell plates **Steel** Thickness **13/16"** Range of tensile strength **60/70,000 lbs** Are the shell plates welded or flanged **no.**

Descrip. of riveting: cir. seams **DOUBLE LAP** long. seams **T.R. D.B.S.** Diameter of rivet holes in long. seams **1 3/16"** Pitch of rivets **4"x8"**

Lap of plates or width of butt straps **12" + 19 1/4"** Per centages of strength of longitudinal joint rivets **115** Working pressure of shell by rules **225 lbs** Size of manhole in shell **none** Size of compensating ring **85**

No. and Description of Furnaces in each boiler **LOCOMOTIVE TYPE** Material **Steel** Outside diameter **48"** Length of plain part **10'** Thickness of plates crown **3/16"** bottom **3/16"**

Description of longitudinal joint **REBOX** No. of strengthening rings **1** Working pressure of furnace by the rules **225** Combustion chamber plates: Material **steel** Thickness: Sides **7/16"** Back **7/16"** Top **7/16"** Bottom **7/16"** Pitch of stays to ditto: Sides **4"x4"** Back **4"x4"**

Top **4"x4"** If stays are fitted with nuts or riveted heads **Riveted heads** Working pressure by rules **260 lbs** Material of stays **iron** Area at smallest part **60"** Area supported by each stay **160"** Working pressure by rules **320** End plates in steam space: Material **steel** Thickness **9/16"**

Pitch of stays **AS PER PLAN** How are stays secured **RIVETED DIAGONAL BRACES WITH PINS** Working pressure by rules **225** Material of stays **iron** Area at smallest part **1.254**

Area supported by each stay **AS PER PLAN** Working pressure by rules **225** Material of stays **iron** Area at smallest part **1.770**

Lower back plate **steel** Thickness **9/16"** Greatest pitch of stays **4"x4"** Working pressure of plate by rules **450** Diameter of tubes **2 1/2"**

Pitch of tubes **3 1/4"** Material of tube plates **steel** Thickness: Front **1/2"** Back **9/16"** Mean pitch of stays **ALL TUBES BEADED BOTH ENDS**

Water spaces **Working pressures by rules 225 LBS APPROVED** Girders to Chamber tops: Material **Steel** Depth and thickness of girder at centre **Length as per rule Distance apart Number and pitch of Stays in each**

Working pressure by rules **Steam dome: description of joint to shell D.R. WITH COMPENSATION % of strength of joint 88**

Diameter **29 5/8"** Thickness of shell plates **1/2"** Material **steel** Description of longitudinal joint **SEAMLESS** Diam. of rivet holes **1 1/16"**

Pitch of rivets **8 1/8" + 3 13/16"** Working pressure of shell by rules **225 LBS APPROVED** Crown plates **steel** Thickness **1 1/4"** How stayed **DISHED**

VERTICAL DONKEY BOILER—No. **NONE** Description **NONE** Manufacturers of steel

Made at **Schenectady N.Y.** By whom made **American Locomotive Co.** When made **1927** Where fixed **On ship** Working pressure

Tested by hydraulic pressure to **225 lbs** Date of test **Sept 13, 22, 28, 29, 30.** No. of Certificate **511** Fire grate area **1.254** Description of safety valves

No. of safety valves **1** Area of each **1.254** Pressure to which they are adjusted **225 lbs** If fitted with easing gear **no.** If steam from main boilers can enter the donkey boiler **no.**

Dia. of donkey boiler **48"** Length **10'** Material of shell plates **Steel** Thickness **13/16"** Range of tensile strength **60/70,000 lbs**

Descrip. of riveting long. seams **T.R. D.B.S.** Dia. of rivet holes **1 3/16"** Whether punched or drilled **no.** Pitch of rivets **4"x8"**

Percentage of strength of joint **115** Working pressure of shell by rules **225** Thickness of shell crown plates **3/16"**

No. of Stays to do. **1** Dia. of stays **4"** Diameter of furnace Top **48"** Bottom **48"** Length of furnace **10'**

Thickness of furnace plates **3/16"** Description of joint **Seamless** Working pressure of furnace by rules **225** Thickness of furnace crown **3/16"**

Radius of do. **48"** Stayed by **4"x4"** Diameter of uptake **48"** Thickness of uptake plates **3/16"**

Thickness of water tubes **3/16"**

R.B. ... The foregoing is a correct description, **American Locomotive Co.** Manufacturer.

During progress of work in shops - - - **1927 Sept 13, 22, 28, 29, 30.**

During erection on board vessel - - -

Total No. of visits

Is the approved plan of main boiler forwarded herewith **YES**

" " " donkey " " "

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

These Boilers have been built under Special Survey in accordance with the Rules + approved plans, + the workmanship + material are good.

They have been tested to 338 lbs by hydraulic pressure, + to 270 lbs by steam pressure, + they were found sound + tight, + shewing no sign of weakness at that pressure.

The boilers will be forwarded to Marietta, O. to be fitted on board + when this has been done to the satisfaction of the Surveyor + in accordance with the Rules, the vessel will be eligible, in my opinion, to receive the notation + LMC (with date)

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee .. £	:	:	When applied for,
Special ^{2/5 to be credited to N.Y.} .. £	:	:19....
Donkey Boiler Fee £	:	:	When received,
(Travelling Expenses (if any) £ \$ 70 ⁰⁰	:	:19....

Included in N.Y. Credit - \$105.00, see Rpt. on Hull.
Committee's Minute NEW YORK MAY 19 1928

Assigned See slo. Rpt. 412

John S. Hecke

Engineer Surveyor to Lloyd's Register of Shipping



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