

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
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 }
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

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 60,700 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"x19 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

boiler LOCOMOTIVE TYPE Material ✓ Outside diameter ✓ Length of plain part top ✓ Thickness of plates crown ✓
Description of longitudinal joint ✓ No. of strengthening rings ✓ Working pressure of furnace by the rules ✓ Combustion chamber

plates: Material steel Thickness: Sides 7/16" Back 7/16" Top 7/16" Bottom ✓ 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 16" 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 1.25+
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 ✓ 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 1/2" Working pressure of shell by rules 225 LBS APPROVED Crown plates steel Thickness 1 1/4" How stayed DISHED

SUPERHEATER. Type NONE 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 ✓

VERTICAL DONKEY BOILER—No. NONE Description Manufacturers of steel

made at By whom made When made Where fixed Working pressure

tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

er the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

length Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

o of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

lius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

ckness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

es Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

ckness of water tubes The foregoing is a correct description,
Manager 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 " " "

003191-003199-0038

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 $\frac{2}{5}$ 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 b/c. Rpt. 412

John S. Heck
Engineer Surveyor to Lloyd's Register of Shipping



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Foundation