

# REPORT ON BOILERS.

Phil. No. 5380  
No. 26884  
22 JAN 1927

Received at London Office

Date of writing Report 2nd Nov 1926 When handed in at Local Office 2<sup>nd</sup> Nov 1926 Port of New York & Philadelphia  
 No. in Survey held at Schenectady, N.Y. Date, First Survey 18 Oct. Last Survey 23 Oct 1926  
 Reg. Book. on the STEEL STERNWHEELER "CASCAJALES" (Number of Visits 10) Gross 444 Tons Net 381  
 Master  Built at Chester Pa By whom built Sam S. B. Co. (Hull # 99) When built 1926  
 Engines made at Kearny N.J. By whom made Federal S. B. Co. When made 1926  
 Boilers made at Schenectady N.Y. By whom made American Locomotive Co. When made 1926  
 Registered Horse Power 285 Owners Imperial Oil Co. Port belonging to Barranguilla, Colombia

**LOCOMOTIVE**  
~~MULTITUBULAR BOILERS~~ MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel Lukens Iron & Steel Co  
 Letter for record S Total Heating Surface of Boilers 5382 sq ft Is forced draft fitted no No. and Description of Boilers 3 Locomotive type Working Pressure 225 lbs Tested by hydraulic pressure to 388 lbs Date of test 22/10/26  
 No. of Certificate 502 Can each boiler be worked separately yes Area of fire grate in each boiler Oil fired No. and Description of Safety valves to each boiler Two, spring loaded Area of each valve 7.068 sq in Pressure to which they are adjusted 225 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 5 Mean dia. of boilers 6'-4 1/16" Length 23'-11 7/16" overall  
 Material of shell plates steel Thickness 15" 31" Range of tensile strength 55/65000 lbs Are the shell plates welded or flanged no  
 Description of riveting: cir. seams double lap long. seams T. R. D. B. S. Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 8.95"  
 Width of butt straps Outside 13 1/2" rivets 110 Working pressure of shell by rules 225 lbs plate 85.5  
 Size of manhole in shell 18" dia Size of compensating ring 18" x 3/4" No. and Description of Furnaces in each boiler Locomotive type Material Steel Outside diameter SEE PLAN Length of plain part top AS PER PLAN Thickness of plates 7/16" crown 7/16" sides 7/16" bottom 7/16"  
 Description of longitudinal joint — No. of strengthening rings — Working pressure of furnace by the rules 257 lbs Combustion chamber plates: Material — Thickness: Sides — Back — Top — Bottom — Pitch of stays to ditto: Sides — Back —  
 If stays are fitted with nuts or riveted heads — Working pressure by rules — Material of stays — Area at smallest part — Area supported by each stay — Working pressure by rules BACK 400 lbs Material of stays steel Thickness 9/16"  
 How are stays secured AS PER PLAN Working pressure by rules 400 lbs Material of stays steel DIA 1 1/4" Area at smallest part —  
 Area supported by each stay 54 sq in Working pressure by rules 225 lbs Material of front plates at bottom steel Thickness 3/4" Material of cover back plate steel Thickness 9/16" Greatest pitch of stays AS PER PLAN Working pressure of plate by rules 225 lbs Diameter of tubes 2 1/2"  
 Material of tube plates steel Thickness: Front 9/16" Back 9/16" Mean pitch of stays ALL TUBES BEADED AT BOTH ENDS Pitch across wide —  
 Working pressures by rules — Girders to Chamber tops: Material — Depth and thickness of boiler 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 Double riveted % of strength of joint COMPENSATION RING FITTED  
 Diameter 28 1/2" Thickness of shell plates 1/2" Material steel Description of longitudinal joint joint Diam. of rivet holes —  
 Working pressure of shell by rules 225 lbs Crown plates steel Thickness 1 1/4" How stayed dished

**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 —  
 Is Easing Gear fitted —

The foregoing is a correct description,  
 AMERICAN LOCOMOTIVE CO  
 PER R. B. Mc Cole. Manufacturer.

*Charles Miller* Inspector

During progress of work in shops -- 18, 22 & 23 Oct 1926 Is the approved plan of boiler forwarded herewith yes  
 During erection on board vessel -- Nov. 9, 11, 17, 19, 22, 29, Dec. 3, 1926 Total No. of visits 10

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) These Locomotive Boilers have been built under Special Survey in accordance with the Rules & approved plan & the workmanship & material are good. They have been forwarded to Chester, Pa. to be fitted on board the vessel when this has been done in accordance with the Rules, they will, in my opinion, be eligible to receive notation + LMC with date as recommended by Philadelphia surveyors  
 Survey Fee 45 to be credited to N.Y. When applied for, 4<sup>th</sup> Jan. 1927  
 Travelling Expenses (if any) £ \$ 59.50 When received, 26/2/27

NEW YORK JAN 12 1927  
 Engineer Surveyors to Lloyd's Register of Shipping.  
 John S. Heck  
 M. Buchanan  
 Committee's Minute  
 Signed See N.Y. Rpt. 27101-Phil. 5380  
 Lloyd's Register Foundation  
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