

# REPORT ON BOILERS.

No. 222.

Received at London Office

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Writing Report March 10<sup>th</sup> 1908 When handed in at Local Office March 20 1908 Port of Newport News Va  
 Survey held at Newport News Va Date, First Survey Sep 16<sup>th</sup> 1907 Last Survey 9<sup>th</sup> March 1908  
 On the S.S. "Lurline" "Nirito" (Number of Visits 10) Tons { Gross 5928  
 Net 3725  
Weldon Built at Newport News Va By whom built Newport News S & Dry Dock Co When built 1901  
 made at N. H. By whom made N. H. S & Dry Dock Co. when made 1908  
 made at N. H. By whom made do when made 1908  
 ed Horse Power ✓ Owners Matson Navigation Co Port belonging to San Francisco

**CITUBULAR BOILERS** ~~MAIN, DONKEY OR DONKEY.~~ Donkey Manufacturers of Steel Irish Bros Co

for record ) Total Heating Surface of Boilers 1421 Is forced draft fitted No. No. and Description of  
1. Scotch Working Pressure 180 lb. Tested by hydraulic pressure to 360 lb. Date of test 2.1.08  
 Certificate 31 Can each boiler be worked separately ✓ Area of fire grate in each boiler 44 # No. and Description of  
 valves to each boiler 2 Spring Area of each valve 6.28 sq" Pressure to which they are adjusted 185 lb.  
 fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no  
 distance between boilers or uptakes and bunkers or woodwork 36" Mean dia. of boilers 11.6" Length 10' 6"  
 of shell plates Steel Thickness 1 5/8" Range of tensile strength 27 to 32 Are the shell plates welded or flanged no  
 of riveting: cir. seams Middle triple long. seams Diameter of rivet holes in long. seams 1 1/6" Pitch of rivets 6"  
 plates or width of butt straps 16 1/2" Per centages of strength of longitudinal joint rivets 84.1 Working pressure of shell by  
216 Size of manhole in shell 12" x 16" Size of compensating ring 25" x 29" No. and Description of Furnaces in each  
Maisons Material Steel Outside diameter 43 3/8" Length of plain part top Thickness of plates crown 43  
ion of longitudinal joint weld No. of strengthening rings 9 Working pressure of furnace by the rules 227 Combustion chamber  
 Material Steel Thickness: Sides 5/8" Back 9/16" Top 5/8" Bottom 5/8" Pitch of stays to ditto: Sides 6 x 6 3/4 Back 6 1/4 x 6 1/4  
✓ If stays are fitted with nuts or riveted heads nuts Working pressure by rules 260 Material of stays Iron Diameter at  
 part 1.39 Area supported by each stay 42 Working pressure by rules 198 End plates in steam space: Material Steel Thickness 3/4"  
 stays 5 x 12 How are stays secured nuts Working pressure by rules 242 Material of stays Iron Diameter at smallest part 2 7/8"  
 supported by each stay 180 sq" Working pressure by rules 378 Material of Front plates at bottom Steel Thickness 3/4" Material of  
 back plate Steel Thickness 3/4" Greatest pitch of stays 6 1/4 x 6 1/4 Working pressure of plate by rules 490 Diameter of tubes 2 1/2"  
 tubes 3 3/4 x 3 1/2 Material of tube plates Steel Thickness: Front 3/4" Back 3/4" Mean pitch of stays 7 1/2 x 7 Pitch across wide  
 plates 6 1/2 Working pressures by rules 400 Girders to Chamber tops: Material Steel Depth and thickness of  
 centre 2-6" x 1 1/2" Length as per rule 27' Distance apart 7" Number and pitch of Stays in each 3-6'  
 pressure by rules 204 Superheater or Steam chest: how connected to boiler ✓ Can the superheater be shut off and the boiler worked  
✓ Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet  
✓ Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓  
ed with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓  
 pressure of end plates ✓ Area of safety valves to superheater ✓ Are they fitted with easing gear ✓

**ICAL DONKEY BOILER** No. Description Manufacturers of steel  
 By whom made When made Where fixed Working pressure  
 hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves  
 ety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can  
 donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile  
 Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets  
 ating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates  
 do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace  
 of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown  
 Radius of do. Stayed by Diameter of uptake Thickness of uptake plates  
 of water tubes

The foregoing is a correct description,  
 NEWPORT NEWS SHIPBUILDING & DRY DOCK CO.  
 By W. H. H. H. General Manager Manufacturer.

During progress of work in shops - 16<sup>th</sup> Sep. 24<sup>th</sup> Dec. 1907. 1908 2<sup>nd</sup> Jan. 7<sup>th</sup> Feb. 18<sup>th</sup> Feb 4.  
 During erection on board vessel - 19<sup>th</sup> 26<sup>th</sup> March 9<sup>th</sup>  
 Total No. of visits 10

Is the approved plan of main boiler forwarded herewith yes  
 " " " donkey " " yes



GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. See letter of the 16/4/07)

reply E 27/4/07.

This boiler was built in 1901 for the Pacific Mail S.S. Co. and not placed on board; it has now been examined over all parts and found in good condition; the materials and workmanship appear to be good; the boiler has been tested to 360 lbs per sq inch with satisfactory results, and, in my opinion, entitles it to be entered in the Register Book for a working pressure of 180 lbs per sq inch. The dimensions of the boiler are in accordance with the plan.

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Certificate (if required) to be sent to the Committee's Minute.

The amount of Entry Fee...	£	:	:	When applied for,
Special ...	£	:	:	20.3 19.08 1908
Donkey Boiler Fee ...	£	:	:	15.00
Travelling Expenses (if any) £	:	:	:	When received, 15.00 1908

J. E. Hunter.  
Engineer Surveyor to Lloyd's Register of British and Foreign Ships

Committee's Minute WED. 22 APL 1908

Assigned see minute on attached report



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