

# REPORT ON BOILERS.

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REPORT NEW YORK *Mar. 8-1919*  
 Date of writing Report *4<sup>th</sup> March 1919* When handed in at Local Office *6<sup>th</sup> March 1919* Port of *New York & Philadelphia*  
 No. in Survey held at *Bayonne N.J. Philadelphia Pa* Date, First Survey *2<sup>nd</sup> July 1918* Last Survey *1919*  
 Reg. Book. on the *STEEL SCREW STEAMER "SAPINERO"* (Number of Visits *60*) Gross *5750* Tons Net *3513*  
 Master *H. A. Thompson* Built at *Philadelphia Pa.* By whom built *American International Corp.* When built *1919*  
 Engines made at *Schenectady N.Y.* By whom made *General Electric Co.* When made *1919*  
 Boilers made at *Bayonne N.J.* By whom made *Babcock & Wilcox Co.* When made *1918*  
 Registered Horse Power *600* Owners *United States Shipping Board* Port belonging to *Philadelphia Pa.*

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

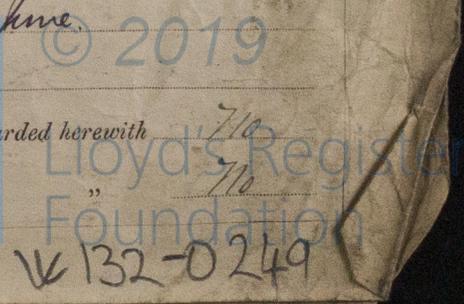
Letter for record *S,* Total Heating Surface of Boilers *8706<sup>sq</sup> ft* Is forced draft fitted *yes* No. and Description of Boilers *Three Water Tube* Working Pressure *200 lb* Tested by hydraulic pressure to *400 lb* Date of test *4/11/18*  
 No. of Certificate *254* Can each boiler be worked separately *yes* Area of fire grate in each boiler *✓* No. and Description of Safety valves to each boiler *Two Direct Spring* Area of each valve *4.16<sup>sq</sup> in* Pressure to which they are adjusted *200 lb* 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 *✓* Mean dia. of <sup>DRUMS</sup>boilers *42"* Length *14' 7 3/8"*  
 Material of shell plates *Steel* Thickness *1/2"* Range of tensile strength *60,000* Are the shell plates welded or flanged *no*  
 Descrip. of riveting: cir. seams *SR Lap* long. seams *D.R.D.B.S.* Diameter of rivet holes in long. seams *3/32"* Pitch of rivets *2 9/32" & 4 9/16"*  
 Gap of plates or width of batt straps *9 3/4" & 15"* Per centages of strength of longitudinal joint rivets *108* plate *80.1* Working pressure of shell by rules *243 lb* Size of manhole in shell *15" x 11"* Size of compensating ring *7/16"* No. and Description of Furnaces in each boiler *✓*  
 Material *✓* Outside diameter *✓* Length of plain part <sup>top</sup> *✓* Thickness of plates <sup>bottom</sup> *✓* crown *✓* bottom *✓*  
 Description of longitudinal joint *✓* No. of strengthening rings *✓* Working pressure of furnace by the rules *✓* Combustion chamber *✓*  
 Plates: Material *✓* Thickness: Sides *✓* Back *✓* Top *✓* Bottom *✓* Pitch of stays to ditto: Sides *✓* Back *✓*  
 Top *✓* If stays are fitted with nuts or riveted heads *✓* Working pressure by rules *✓* Material of stays *✓* Diameter at smallest part *✓* Area supported by each stay *✓* Working pressure by rules *✓* End plates in steam space: Material *Steel* Thickness *1 1/2"*  
 Pitch of stays *✓* How are stays secured *Dished Ends* *42" Rad* Working pressure by rules *200 lb* Material of stays *✓* Diameter at smallest part *✓*  
 Area supported by each stay *✓* Working pressure by rules *✓* Material of Front plates at bottom *✓* Thickness *✓* Material of *✓*  
 Lower back plate *✓* Thickness *✓* Greatest pitch of stays *✓* Working pressure of plate by rules *✓* Diameter of tubes *✓*  
 Pitch of tubes *✓* Material of tube plates *✓* Thickness: Front *✓* Back *✓* Mean pitch of stays *✓* Pitch across wide *✓*  
 Water spaces *✓* Working pressures by rules *✓* Girders to Chamber tops: Material *✓* Depth and thickness of *✓*  
 Under at centre *✓* Length as per rule *✓* Distance apart *✓* Number and pitch of Stays in each *✓*  
 Working pressure by rules *✓* Superheater or Steam chest: how connected to boiler *✓* Can the superheater be shut off and the boiler worked *✓*  
 Separately *yes* 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 *✓*  
 Stiffened with rings *✓* Distance between rings *✓* Working pressure by rules *✓* End plates: Thickness *✓* How stayed *✓*  
 Working pressure of end plates *✓* DIA *1"* Area of safety valves to superheater *✓* Are they fitted with easing gear *yes*

## VERTICAL DONKEY BOILER— No. Description Manufacturers of steel

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 *✓*  
 Area of each *✓* Pressure to which they are adjusted *✓* If fitted with easing gear *✓* If steam from main boilers can *✓*  
 Enter the donkey boiler *✓* Dia. of donkey boiler *✓* Length *✓* Material of shell plates *✓* Thickness *✓* Range of tensile *✓*  
 Strength *✓* Descrip. of riveting long. seams *✓* Dia. of rivet holes *✓* Whether punched or drilled *✓* Pitch of rivets *✓*  
 No. of plating *✓* Per centage of strength of joint Rivets *✓* Working pressure of shell by rules *✓* Thickness of shell crown plates *✓*  
 Dia. of do. *✓* No. of Stays to do. *✓* Dia. of stays *✓* Diameter of furnace Top *✓* Bottom *✓* Length of furnace *✓*  
 Thickness of furnace plates *✓* Description of joint *✓* Working pressure of furnace by rules *✓* Thickness of furnace crown *✓*  
 Dia. of do. *✓* Stayed by *✓* Diameter of uptake *✓* Thickness of uptake plates *✓*  
 Thickness of water tubes *✓*

The foregoing is a correct description,  
*Babcock & Wilcox Co.* Manufacturer.  
 per *J. Stenger* Marine Dept

During progress of work in shops - - - 1918: Mar 6, 14, 18, 19, 21, 22, 25, 27, 28, 29, 30, Apr 1, 2, 4, 5 \* daily until 18 June  
 During erection on board vessel - - - See Reports. H.A.  
 Total No. of visits *✓* Is the approved plan of main boiler forwarded herewith *7/10*  
 " " " donkey " " *7/10*



W 132-0249

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

These Boilers have been constructed under Special Survey and in accordance with plans approved July 18-1917. The workmanship and material are both of good quality. The steam-drums and sections have been tested by hydraulic pressure to 400 lb per sq inch, and found tight & sound. They have now been despatched for fitting aboard. To complete the survey the boilers to be re-erected on board and tested by hydraulic pressure, all mountings to be examined and fitted. Safety-valves to be adjusted under steam.

Philadelphia

Boilers now erected on board. Mountings examined and fitted. Hydraulic test of 400 lb applied and Safety valves adjusted under steam to 200 lb.

Port of  
No. in  
Reg. Book  
Owners  
Yard No.

DESCRIPTION

2-15 K. W  
engines &  
Capacity of Dy  
Where is Dyna  
Position of Ma  
Positions of a  
9 Circuit  
6 circuit  
If fuses are fi  
circuits  
If vessel is win  
Are the fuses  
Are all fuses  
are perma  
Are all switche  
Total number  
A  
B  
C  
D  
E  
F  
EG  
2 Mast  
3  
12  
1 Search  
If arc lights, u  
Conn

DESCRIPTION

Main cable carry  
Branch cables c  
Branch cables c  
Leads to lamps c  
Cargo light cables

DESCRIPTION

All light  
#00, #2,  
#10, #12,  
Joints in cables,  
Are all the joints  
positions, n  
Are there any jo  
How are the cabl

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

Table with columns for fee types (Entry Fee, Special, Donkey Boiler Fee, Travelling Expenses) and amounts.

March fee  
See New York

Alexander Macquatt, J. M.  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
Assigned  
New York MAR 11 1919  
See Phil. Rpt 3134

TUE JUN 24 1919

