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# REPORT ON BOILERS.

No. 15744

REC'D OCT. 1-1919

Received at London Office

Date of writing Report NEW YORK Sept. 2-1919 When handed in at Local Office Philadelphia 1919. Port of New York

No. in Survey held at Bayonne N.J. Date, First Survey Oct 30 1918 Last Survey Oct 30 1918

Reg. Book. on the SS. SCAMPER (Number of Visits) Gross 8703 Tons Net 3562

Master C. G. Lane Built at Albany By whom built American Iron Works When built 1919

Engines made at Schenectady By whom made General Electric 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

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

(Letter for record S) Total Heating Surface of Boilers 8706 <sup>induced</sup> Is forced draft fitted yes No. and Description of Boilers Three Water Tube Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 2/5/19

No. of Certificate 326. 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 7.06 Pressure to which they are adjusted 200 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 ✓ Mean dia. of 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 S.R. Lap long. seams D.R.D.B.S. Diameter of rivet holes in long. seams 32" Pitch of rivets 2 3/4" 4 1/16"

Lap of plates or width of butt straps 9 3/4" 15" Per centages of strength of longitudinal joint 108. Working pressure of shell by rules 243 lbs Size of manhole in shell 15" x 11" Size of compensating ring 7 1/16" No. and Description of Furnaces in each boiler

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 ✓ 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 Dashed ends 42" R. Approved 200 lbs Working pressure by rules 200 lbs 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 girder 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 holes ✓ Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓

If stiffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓

Working pressure of end plates ✓ Area of safety valves to superheater 1" Are they fitted with easing gear yes

## VERTICAL DONKEY BOILER— No. 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

No. 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

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

Radius 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 plates

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

Thickness of water tubes

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

Dates of Survey while building { During progress of work in shops -- 1918: Mar. 6, 14, 15, 18, 19, 21, 22, 25, 27, 28, 29, 30 Apr. 1, 2, 5, 20 daily until 30 Oct/18 }  
 { During erection on board vessel -- } See Report 4a.  
 Total No. of visits

Is the approved plan of main boiler forwarded herewith ✓

" " " donkey " " ✓



**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 and 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.

~~Planned by~~

~~Boilers erected on board, mountings examined and fitted, hydraulic test of 400 lb applied, and safety valves adjusted under steam to 200 lb.~~

Certificate (if required) to be sent to

The amount of Entry Fee .. £	:	:	When applied for,
Special .. £	:	:	.....19.....
Donkey Boiler Fee .. £	:	:	When received,
Travelling Expenses (if any) £	:	:	.....19.....

Committee's Minute New York SEP - 9 1919

Assigned

See Phil Rpt 3387

Alexander Macmillan and  
Engineer Surveyors to Lloyd's Register of Shipping.



Lloyd's Register  
Foundation