

10E.27.MAR.1919

400 to 5.

REPORT ON BOILERS.

No. 15399
3220

REC'D NEW YORK *May 3-1919*

Received at London Office

of writing Report *15 April 1919* When handed in at Local Office *16 April 1919* Port of *New York and Philadelphia*
To, in Survey held at *Bayonne N.J. and Philadelphia, Pa.* Date, First Survey *10th Sept 1918* Last Survey *24th April 1919*
g. Book. on the *STEEL SCREW STEAMER "SAHALE"* (Number of Visits *48*) Gross *5784* Tons Net *3513*
Built at *Philadelphia, Pa.* By whom built *American International Corp.* When built *1919*
Engines made at *Charlestown N.J.* By whom made *General Electric Co.* When made *1918*
Boilers made at *Bayonne N.J.* By whom made *Babcock & Wilcox* When made *1918*
Horse Power *600* Owners *Emergency Fleet Corporation* Port belonging to *Philadelphia, Pa.*

WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Lukens Steel Co.*
Letter for record *S* Total Heating Surface of Boilers *8706 sq. 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 *7-10-18*
No. of Certificate *240* 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 *4.06 sq. 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 *DRUMS* *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. lat* long. seams *D.R.D.B.S.* Diameter of rivet holes in long. seams *29/32"* Pitch of rivets *2 3/4" x 4 1/4"*
Pitch of plates or width of butt straps *9 3/4" x 15"* Per centages of strength of longitudinal joint: rivets *108* plate *80.1* Working pressure of shell by rules *243 1/2*
Size of manhole in shell *15" x 11"* Size of compensating ring *7 1/2"* **No. and Description of Furnaces in each boiler**

	Material	Outside diameter	Length of plain part	Thickness of plates
Top				
Bottom				

	No. of strengthening rings	Working pressure of furnace by the rules	Combustion chamber
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	Diameter at
Smallest part				
Area supported by each stay				
Working pressure by rules				
End plates in steam space: Material				
Thickness				

	How are stays secured	Working pressure by rules	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				

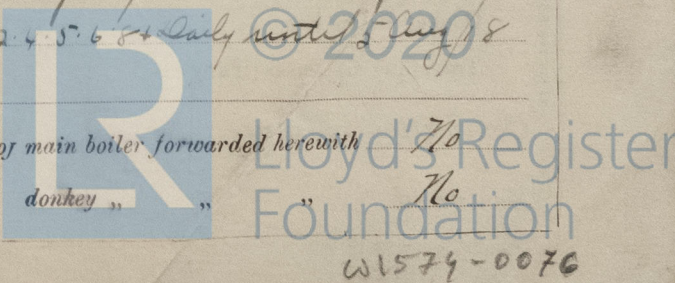
	Thickness	Greatest pitch of stays	Working pressure of plate by rules	Diameter of tubes
Lower back plate				
Material of tube plates				
Thickness: Front				
Back				
Mean pitch of stays				
Pitch across wide				

	Working pressures by rules	Girders to Chamber tops: Material	Depth and thickness of
der 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			
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			
D/A of safety valves to superheater			
Are they fitted with easing gear			

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
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
Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates
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.
per J. Steney, Maine Dept. Manufacturer.

During progress of work in shops - - - 1918 Jan 30 Feb 14 Mar 6 14 15 18 19 21 22 25 27 28 29 30
During erection on board vessel - - -
Total No. of visits
Is the approved plan of main boiler forwarded herewith *No*
" " " donkey " " *No*



W1579-0076

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.

Philadelphia

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

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 £	:	:19.....
Donkey Boiler Fee £	:	:	When received,
Travelling Expenses (if any)	£	:	:19.....

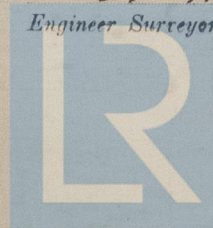
Committee's Minute

Assigned

New York MAY - 7 1919

See Phil. Rpt No. 3220.

Alexander Macdonald J. Steen
Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register
Foundation