

# REPORT ON BOILERS.

No. 15665  
3320

Received at London Office

Writing Report REB July 1919 When handed in at Local Office 7<sup>th</sup> July 1919 Port of New York & Philadelphia  
in Survey held at Bayonne N.J. Date, First Survey Oct 9 1918  
Book. "SALVATION LASS" (Number of Visits) } Gross 5753  
Net 3562

on the STEEL SCREW STEAMER "SALVATION LASS"  
Built at Philadelphia By whom built American International Corp. When built 1919  
Boilers made at Schenectady N.Y. By whom made General Electric Co. When made 1918  
Boilers made at Bayonne N.J. By whom made Babcock & Wilcox Co. MB593 When made 1918  
Horse Power 600 Owners Emergency Fleet Corporation Port belonging to Philadelphia

WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Lakers Steel Co

Total Heating Surface of Boilers 8700<sup>sq</sup> ft 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 4/4/19

of Certificate 313 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<sup>sq</sup> in Pressure to which they are adjusted 300 lbs

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<sup>in</sup> Length 14' 7 3/8<sup>in</sup>

Material of shell plates Steel Thickness 1/2<sup>in</sup> Range of tensile strength 60,000 Are the shell plates welded or flanged no

Description of riveting: cir. seams SR Lap long. seams DR, DBS Diameter of rivet holes in long. seams 3/32<sup>in</sup> Pitch of rivets 2 3/4<sup>in</sup> & 4 1/16<sup>in</sup>

No. of plates or width of butt straps 9 3/4<sup>in</sup>, 15<sup>in</sup> Per centages of strength of longitudinal joint 108 Working pressure of shell by rules 80-1

Size of manhole in shell 24 3/4<sup>in</sup> x 11<sup>in</sup> Size of compensating ring 16<sup>in</sup> No. and Description of Furnaces in each Boiler

Material ✓ Outside diameter ✓ Length of plain part ✓ Thickness of plates ✓ 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 ✓

If stays are fitted with nuts or riveted heads ✓ Working pressure by rules ✓ Material of stays ✓ Diameter at smallest part 19<sup>in</sup>

Area supported by each stay ✓ Working pressure by rules ✓ End plates in steam space: Material Steel Thickness 32<sup>in</sup>

How are stays secured Dashed ends 42<sup>in</sup> R Working pressure by rules Approved 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

Upper 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

Clear spaces ✓ 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 ✓ 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 rivets

Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓

Reinforced 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<sup>in</sup> Are they fitted with easing gear yes

VERTICAL DONKEY BOILER—No. Description Manufacturers of steel

Boiler 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

Area 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

Dates of Survey while building { During progress of work in shops - - - 1918. Mar 6. 14. 15. 18. 19. 21. 22. 25 & daily until 9 Oct/18  
During erection on board vessel - - - See Report 49.  
Total No. of visits

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

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



W1581-0153

**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 18-1919. 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 erected aboard, mountings examined & 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.....

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



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Lloyd's Register  
 Foundation

Committee's Minute

New York JUL 15 1919

Assigned

*See Phil No 3320*