

Attached to Baltimore Report No 2055  
**REPORT ON BOILERS.** No. 13298

Received at London Office

Rpt. 5.

Date of writing Report 1916 When handed in at Local Office 1916 Port of New York  
 No. in survey held at Red Bank N.J. Date, First Survey 22<sup>nd</sup> September Last Survey 10<sup>th</sup> October 1916.  
 Reg. No. 4 Supt. on the Donkey Boiler for Motor Vessel "Holden Evans" 76 Tons } Gross 3253  
 Master W. Habel Built at Baltimore By whom built Baltimore S.D. & S.B. Co. When built 1917 } Net 2025  
 Engines made at Stockholm By whom made J. & C. G. Bolinder Co. When made 1916  
 Boilers made at Red Bank N.J. By whom made The Roberts' Boiler Co. When made 1916  
 Registered Horse Power Owners Continental Transportation Port belonging to Wilmington Del.  
 & Oil Co.

**MULTITUBULAR BOILERS** — MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel *Wark*

(Letter for record *a*) Total Heating Surface of Boilers *850 #* Is forced draft fitted *No.* No. and Description of Boilers *One Water Tube* Working Pressure *250 lb.* Tested by hydraulic pressure to *400 lb.* Date of test *10.10.16*  
 No. of Certificate *17* Can each boiler be worked separately  Area of fire grate in each boiler *29 #* No. and Description of safety valves to each boiler *One Spring loaded* Area of each valve *7.07 sq"* Pressure to which they are adjusted *150 lb.*  
 Are they fitted with easing gear *Yes.* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *No.*  
 Smallest distance between boilers or uptakes and bunkers or woodwork  Mean dia. of ~~boilers~~ *24"* Length *77"*  
 Material of shell plates *Steel.* Thickness *1/2"* Range of tensile strength *28-32* Are the shell plates welded or flanged *No.*  
 Descrip. of riveting: cir. seams *Single* long. seams *Double* Diameter of rivet holes in long. seams *7/8"* Pitch of rivets *2.85"*  
 Lap of plates *4 1/4"* Per centages of strength of longitudinal joint *69.4* Working pressure of shell by rules *335 lb.* Size of hole in shell *7"* Size of compensating ring *-* No. and Description of Furnaces in each boiler  
 Material  Outside diameter  Length of plain part  Thickness of plates   
 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 *5/8"*  
 Pitch of stays *6"* How are stays secured *Riveted* Working pressure by rules *278 lb.* Material of stays *Iron* Diameter at smallest part *1 3/8"*  
 Area supported by each stay *36 sq"* Working pressure by rules *250 lb.* 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  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  Are they fitted with easing gear

**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 Plates 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 Roberts' Safety Water Tube Boiler Co.* Manufacturer.  
 Per *A*

Dates of Survey while building { During progress of work in shops -- } *Sept. 22 Oct. 6. 10*  
 { During erection on board vessel --- } *Nov. 20 Dec 6. 14. 28 Jan 25. Feb 24*  
 Total No. of visits *9*

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



W1015-0029 1/2

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

This Boiler has been constructed under Special Power. The material and workmanship are good. The Boiler was tested on completion to 150 lbs per sq" by water pressure.  
It has now been sent to Baltimore to be fitted on board

This Boiler has now been installed and tried under steam and safety valves adjusted to 150 lb.

This Report is attached to Baltimore Report No. 2055.

H. Stewart

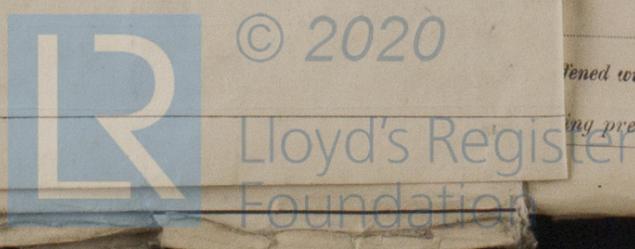
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Certificate (if required) to be sent to  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee .. £	:	:	When applied for.
Special .. .. . £			.....10.....
Donkey Boiler Fee .. .. £	\$ 25	00	When received.
Travelling Expenses (if any) £	3	75	.....10.....
		100	

Committee's Minute  
Assigned  
New York MAR 22 1917  
See J.E. on Mch

*Wm. Salmon & H. Stewart*  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping



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