

# REPORT ON BOILERS.

Received at London Office

Date of writing Report Dec. 7<sup>th</sup> 1918 When handed in at Local Office Dec. 7<sup>th</sup> 1918 Port of Newport News Va  
 No. in Survey held at Newport News Va Date, First Survey Dec. 14<sup>th</sup> 1917 Last Survey Dec 2<sup>nd</sup> 1918  
 Reg. Book. 4 on the STEEL SS "F. J. ASCHE" (Number of Visits 6) Tons } Gross 8294  
 Net 6332  
 Master ✓ Built at Newport News By whom built Newport News S.D.D. Co. When built 1918-12  
 Engines made at Newport News By whom made Newport News S.D.D. Co. When made 1918-12  
 Boilers made at Newport News By whom made Newport News S.D.D. Co. When made 1918-12  
 Registered Horse Power 533 Owners Standard Oil Co of N.J. Port belonging to Newport News

## MULTITUBULAR BOILERS—~~MAIN, AUXILIARY OR DONKEY.~~—Manufacturers of Steel LUXENS I & S Co

Letter for record S. Total Heating Surface of Boilers 1223 Is forced draft fitted no No. and Description of Boilers 1. S.E. SCOTCH— Working Pressure 180 Tested by hydraulic pressure to 270 Date of test 21-2-18  
 No. of Certificate 192 Can each boiler be worked separately yes Area of fire grate in each boiler 39 No. and Description of Safety valves to each boiler Two 2 1/2" SPRING Area of each valve 4.90 Pressure to which they are adjusted 180 lbs.  
 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 20" Mean dia. of boilers 10'-11" Length 10'-10 1/2"  
 Material of shell plates S. Thickness 3/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no  
 Descrip. of riveting: cir. seams L OR long. seams T.B.S.T.R Diameter of rivet holes in long. seams 1 3/16 Pitch of rivets 6 7/8  
 Lap of plates or width of butt straps 17 3/4 Per centages of strength of longitudinal joint rivets 103. Working pressure of shell by rules 184 Size of manhole in shell 16" x 12" Size of compensating ring 38" x 34" No. and Description of Furnaces in each boiler 2. MORNING Material S. Outside diameter 43 1/16 Length of plain part top ✓ Thickness of plates crown 17/32 bottom 3/32  
 Description of longitudinal joint WELD No. of strengthening rings ✓ Working pressure of furnace by the rules 190 Combustion chamber plates: Material S. Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 7/8 Pitch of stays to ditto: Sides 7 1/2 x 7 1/2 Back 7 1/2 x 7 1/2  
 Top 7 1/2 x 7 1/2 If stays are fitted with nuts or riveted heads NUTS Working pressure by rules 194 Material of stays S. Area at smallest part 148 Area supported by each stay 56 Working pressure by rules 210 End plates in steam space: Material S Thickness 3/32  
 Pitch of stays 14 x 14 How are stays secured T.N. Working pressure by rules 188 Material of stays S. Area at smallest part 2 1/4  
 Area supported by each stay 196 Working pressure by rules 211 Material of Front plates at bottom S. Thickness 3/4 Material of Lower back plate S. Thickness 3/4 Greatest pitch of stays 7 1/2 x 7 1/2 Working pressure of plate by rules 326 Diameter of tubes 2 3/4  
 Pitch of tubes 4 x 3 3/4 Material of tube plates S. Thickness: Front 3/4 Back 3/4 Mean pitch of stays 9 3/4 Pitch across wide water spaces 12 3/4 Working pressures by rules 212 Girders to Chamber tops: Material S. Depth and thickness of girder at centre Two 9 x 7/4 Length as per rule 33" Distance apart 7" Number and pitch of Stays in each 3:- 7 1/2"  
 Working pressure by rules 204 Steam dome: description of joint to shell ✓ % of strength of joint  
 Diameter \_\_\_\_\_ Thickness of shell plates \_\_\_\_\_ Material \_\_\_\_\_ Description of longitudinal joint \_\_\_\_\_ Diam. of rivet holes \_\_\_\_\_  
 Pitch of rivets \_\_\_\_\_ Working pressure of shell by rules \_\_\_\_\_ Crown plates \_\_\_\_\_ Thickness \_\_\_\_\_ How stayed \_\_\_\_\_

UPERHEATER. Type \_\_\_\_\_ Date of Approval of Plan \_\_\_\_\_ Tested by Hydraulic Pressure to \_\_\_\_\_  
 Date of Test \_\_\_\_\_ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler \_\_\_\_\_  
 Diameter of Safety Valve \_\_\_\_\_ Pressure to which each is adjusted \_\_\_\_\_ Is Easing Gear fitted \_\_\_\_\_

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 \_\_\_\_\_ 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 \_\_\_\_\_

Newport News Shipbuilding & Dry Dock Co. Manufacturer.  
 By A. H. Rhoads Assistant to the President

Dates of Survey while building { During progress of work in shops -- } Dec 14<sup>th</sup> - 20<sup>th</sup> 1917 Jan 23<sup>rd</sup> - Feb 6<sup>th</sup> 1918  
 { During erection on board vessel - - - } December 2<sup>nd</sup> 1918  
 Total No. of visits 6

Is the approved plan of main boiler forwarded herewith no

Plans sent with N. N. RAT. No. 1588- " " donkey " " " "

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

The boiler has been built in accordance with the approved plans and rules for the intended pressure 180 lbs sq". The workmanship and materials are good and render the vessel eligible to have the record T.B. 180 lbs in the Register Book.

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 .. .. . £	:	:	7.12.18 Am
Donkey Boiler Fee .. .. \$ 10.00	:	:	When received, 21/11/17
Travelling Expenses (if any) £	:	:	21/11/17

*John H. Marsden*  
Engineer Surveyor to Lloyd's Register of Shipping.

New York DEC 17 1918

Committee's Minute

Assigned

*See other Report*



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Foundation