

# AIR TANKS

## REPORT ON WATER TUBE BOILERS.

No. 7314

SEP 7 1937

Received at London Office

Date of writing Report Aug 12<sup>th</sup> 1937 When handed in at Local Office Aug 12<sup>th</sup> 1937 Port of Philadelphia  
 No. in Survey held at Chester Pa Date, First Survey April 7 Last Survey 25 May 1937  
 Reg. Bk. M V LOUISIANA (Number of Visits 4) Tons { Gross not Net available  
 on the Chester Pa When built 1937  
 Master Chester Pa By whom built Sim SB & DD Co When made 1937  
 Engines made at Chester Pa By whom made Sim SB & DD Co When made "  
 Boilers made at Chester Pa By whom made Foster Wheeler Corp When made "  
 (Nominal) Horse Power 1179 Owners The Texas Company Port belonging to Wilmington Del

**WATER TUBE BOILERS** air tanks MAIN, AUXILIARY, OR DONKEY. Manufacturers of Steel Lukens Steel Co  
 (Letter for Record 3 air tanks) Date of Approval of plan 5 Feb 1937 Number and Description or Type rod day 37  
 of Boilers 3 air tanks Working Pressure 600 lbs Tested by Hydraulic Pressure to 1200 Date of Test rod day 37  
 No. of Certificate 700, 701, 702 Can each boiler be worked separately yes Total Heating Surface of Boilers "  
 Is forced draught fitted - Area of fire grate (coal) in each boiler - Total grate area of boilers in vessel including -  
 Main and Auxiliary - No. and type of burners (oil) in each boiler - No. and description of safety valves on -  
 each boiler - Area of each valve - Pressure to which they are adjusted -  
 Are they fitted with easing gear - 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 - Height of Boiler - Width and Length 13 1/16"  
air Steam Drums: Number in each boiler 1 Inside diameter 42" Material of plates Steel Thickness 1 3/16"  
 Range of Tensile Strength 55-65000 lbs Are drum shell plates welded or flanged fusion welded Description of riveting: -  
 Cir. seams fusion welded long. seams fusion welded Diameter of rivet holes in long. seams - Pitch of Rivets 90% allowed  
 Lap of plate or width of butt straps - Thickness of straps - Percentage strength of long. joint: Plate 90% allowed Rivet -  
 Diameter of tube holes in drum - Pitch of tube holes - Percentage strength of shell in way of tubes -  
 If Drum has a flat side state method of staying No flat side Depth and thickness of girders at centre -  
 (if fitted) - Distance apart - Number and pitch of stays in each 1/16" Working pressure 36"  
 by rules - Thickness Steel Thickness 1 1/16" Radius or how stayed 36"  
 Size of Manhole or Handhole 12" x 16" Water Drums: Number in each boiler - Inside Diameter -  
 Material of plates - Thickness - Range of tensile strength - Are drum shell plates welded -  
 or flanged - Description of riveting: Cir. seams - long. seams - Diameter of Rivet Holes in -  
 long. seams - Pitch of rivets - Lap of plates or width of butt straps - Thickness of straps -  
 Percentage strength of long. joint: Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes -  
 Percentage strength of drum shell in way of tubes - Water Drum Heads or Ends: Material - Thickness -  
 Radius or how stayed - Size of manhole or handhole - Headers or Sections: Number -  
 Material - Thickness - Tested by Hydraulic Pressure to - Material of Stays -  
 Area at smallest part - Area supported by each stay - Working Pressure by Rules - Tubes: Diameter -  
 Thickness - Number - Steam Dome or Collector: Description of Joint to Shell - Material -  
 Percentage strength of Joint - Diameter - Thickness of shell plates - Working Pressure of shell -  
 Description of longitudinal joint - Diameter of Rivet Holes - Pitch of Rivets -  
 by Rules - Crown or End Plates: Material - Thickness - How stayed -

**SUPERHEATER.** Type None 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 -  
 Is a drain cock or valve fitted at lowest point of superheater - Number, diameter, and thickness of tubes -  
 Spare Gear. Tubes - Gaskets or joints: Manhole - Handhole - Handhole plates -

The foregoing is a correct description,  
SUN SHIPBUILDING & DRY DOCK CO. Manufacturer.  
Robert L. Hargis

Is the approved plan of boiler forwarded herewith

Total No. of visits 5

Dates of Survey { During progress of work in shops - April 7 May 5-20, 25  
 while building { During erection on board vessel - July 20

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

The above tanks have been constructed under Special Survey, and in accordance with the approved plans, the workmanship & materials are good. After the welding was completed, the tanks were stress relieved, see separate report on welding. The tanks were tested by raising the pressure to 900 lbs, and beating them with a 7 lb hammer, the pressure was then increased to 1200 lbs found satisfactory. The tanks have now been satisfactorily installed on board the vessel.

Survey Fee \$15.00 (if any) \$90.00  
 Travelling Expenses (if any) \$5.00

When applied for, 12 August 1937  
 When received, 22-10-1937

W. M. Runham  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned See First Entry Report on Oil Engines

NEW YORK AUG 25 1937

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