

REC'D NEW YORK OCT 14 1941

Air Receivers

Rpt. 5c.

# REPORT ON WATER TUBE BOILERS.

No. 7993

Date of writing Report 3 Feb 1941 When handed in at Local Office 7 Feb 1941 Port of Philadelphia  
 Received at London Office 22 Nov 1941  
 No. in Survey held at Chester Pa Date, First Survey April 12 Last Survey 20 Dec 1940  
 Reg. Bk. on the S/S OKLAHOMA (Number of Visits) Tons } Gross 9264.73  
 Net 5405  
 Built at Chester Pa By whom built Sum PB & DD Co When built 1940  
 Engines made at Essington Pa By whom made Westinghouse Elec & Mfg Co When made "  
 Boilers made at Barberton Ohio By whom made Babcock & Wilcox Co MS 1484 A+B When made "  
 Nominal Horse Power 1718 Owners The Texas Co Port belonging to Wilmington Del

**WATER TUBE BOILERS** MAIN, AUXILIARY, OR DONKEY. — Manufacturers of Steel Lukens Steel Co

Date of Approval of plan Feb 1940 Number and Description or Type of Boilers 1 Air Receiver Working Pressure 125 lb Tested by Hydraulic Pressure to 250 lb Date of Test 22 April 40

No. of Certificate ✓ Can each boiler be worked separately ✓ Total Heating Surface of Boilers 27 cu ft

Is forced draught fitted ✓ Area of fire grate (coal) in each Boiler

No. and type of burners (oil) in each boiler No. and description of safety valves on each boiler air receiver 1- 1/2 Spring loaded Area of each set of valves per boiler { per rule as fitted 196 sq in Pressure to which they are adjusted 125 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 Height of boiler 31 3/8 in

Width and Length Thickness of plates 7/16 in Range of Tensile Strength 156,600 lb Are drum shell plates welded or flanged welded If fusion welded, state name of welding firm Sum PB & DD Co Have all the requirements of the rules for Class I vessels been complied with yes Description of riveting:—Cir. seams long. seams

Diameter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of long. joint:—Plate 80% Rivet Diameter of tube holes in drum Pitch of tube holes

Percentage strength of shell in way of tubes Steam Drum Heads or Ends:—Range of tensile strength 156,600 lb Water Drums:—Number in each boiler Inside Diameter Thickness of plates Range of tensile strength Are drum shell plates welded or flanged If fusion welded, state name of welding firm Have all the requirements of the rules for Class I vessels been complied with Description of riveting:—Cir. seams long. seam

Diameter of rivet holes in long. seams Pitch of rivets 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:—Range of Tensile strength Size of manhole or handhole 15" x 11" Water Drums:—Number in each boiler Inside Diameter Thickness of plates Range of tensile strength Are drum shell plates welded or flanged If fusion welded, state name of welding firm Have all the requirements of the rules for Class I vessels been complied with Description of riveting:—Cir. seams long. seam

Diameter of rivet holes in long. seams Pitch of rivets 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:—Range of Tensile strength Size of manhole or handhole

Thickness of plates Radius or how stayed 30 in Tested by Hydraulic Pressure to

Headers or Sections:—Number Material Thickness Number Steam Dome or Collector:—Description of Tubes:—Diameter Thickness Number Range of tensile

Joint to Shell Inside diameter Thickness of shell plates Range of tensile strength

If fusion welded, state name of welding firm Diameter of rivet holes

Have all the requirements of the rules for Class I vessels been complied with Plate Rivet

Pitch of rivets Thickness of straps Percentage strength of long. joint Radius or how stayed

Crown or End Plates:—Range of tensile strength Thickness Radius or how stayed

Inside Diameter SUPERHEATER. Drums or Headers:—Number in each boiler Are drum shell plates welded

Thickness Material Range of tensile strength Have all the requirements of the rules or flanged If fusion welded, state name of welding firm long. seams

for Class I vessels been complied with Description of riveting:—Cir. seams long. seams

Diameter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of drum shell in way of tubes Drum Heads or Ends:—Thickness Range of tensile strength

Radius or how stayed Size of manhole or handhole Number, diameter, and thickness of tubes

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 No. and description of Safety Valves Area of each set of valves Pressure to which they are adjusted Is easing gear fitted

Spare Gear. Has the spare gear required by the rules been supplied The foregoing is a correct description, Manufacturer.

Dates of Survey } During progress of work in shops -- } April 12, 23 1940 Is the approved plan of boiler forwarded herewith yes  
 while building } During erection on board vessel -- } Dec 20 1940 Total No. of visits 3

Is this boiler a duplicate of a previous case yes If so, state vessel's name and report No. OHIO No 7881

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This receiver has been built under Special Survey in accordance with the approved plans, the workmanship & materials are good. The receiver has been stress relieved & X-rays taken. Copy of test reports attached. The receiver has been satisfactorily installed on board the vessel. The receiver was tested by raising the pressure to 187 lb, hammer testing same & then raised to 250 lb.

Survey Fee ... .. £ : : } When applied for, ✓ 19  
 Travelling Expenses (if any) £ : : } When received, ✓ 19  
See as agreed

Committee's Minute Assigned See attached first entry Report.

NEW YORK OCT 15 1941

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation