

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
 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 3) Tons { Gross 9264.73 Net 5405
 Built at Chester Pa By whom built Sum PB & D 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 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 1940
 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
 are adjusted 125 lb Area of each set of valves per boiler { per rule ✓ as fitted 196" 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 ✓
 Width and Length 716" Steam Drums:—Number in each boiler 1 Inside diameter 31 3/8"
 Thickness of plates 7/16" 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 & D 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 80% 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
 Thickness of plates 7/16" Radius or how stayed 30" 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 ✓ Pitch of tube holes ✓
 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 ✓
 Thickness of plates ✓ Radius or how stayed ✓ Size of manhole or handhole ✓
Headers or Sections:—Number ✓ Material ✓ Thickness ✓ Tested by Hydraulic Pressure to ✓
Tubes:—Diameter ✓ Thickness ✓ Number ✓ **Steam Dome or Collector:**—Description of Joint to Shell ✓ Inside diameter ✓ Thickness of shell plates ✓ Range of tensile strength ✓
 firm ✓ Have all the requirements of the rules for Class I vessels been complied with ✓ If fusion welded, state name of welding ✓
 Pitch of rivets ✓ Thickness of straps ✓ Percentage strength of long. joint ✓ Diameter of rivet holes ✓
Crown or End Plates:—Range of tensile strength ✓ Thickness ✓ Radius or how stayed ✓ Plate ✓ Rivet ✓
SUPERHEATER. Drums or Headers:—Number in each boiler ✓ Inside Diameter ✓
 Thickness ✓ Material ✓ 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. seams ✓
 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 ✓
 drum shell in way of tubes ✓ **Drum Heads or Ends:**—Thickness ✓ Range of tensile strength ✓ Number, diameter, and thickness of tubes ✓
 Radius or how stayed ✓ Size of manhole or handhole ✓ Is a safety valve fitted to each section of the superheater which can be shut off from the boiler ✓ Date of Test ✓ Area of each set of valves ✓ No. and description of Safety Valves ✓ Is easing gear fitted ✓
 of valves ✓ Pressure to which they are adjusted ✓

Spare Gear. Has the spare gear required by the rules been supplied yes

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 { During erection on board vessel - - - Dec 20 1940 Total No. of visits 3
 building {

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

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