

# REPORT ON WATER TUBE BOILERS.

No. 6673

SMALL AIR TANK

Received at London Office

JAN 23 1939

Date of writing Report Nov 11 1938 When handed in at Local Office Jan 31 1939 Port of Baltimore, Maryland

No. in Survey held at Sparrows Point, Maryland Date, First Survey July 25th Last Survey November 11 1938  
 Reg. Bk. 87531 on the Steel Single Sc Oil Tanker "CONNECTICUT" (Number of Visits 3) Gross 8684 Tons Net 5105  
 Master Richard Quick Built at Sparrows Point, Md. By whom built Bethlehem Steel Company When built 1938  
 Engines made at Quincy, Mass. By whom made Bethlehem Steel Company When made 1938  
 Boilers made at Carteret, N.J. By whom made Foster Wheeler Corp. When made 1938  
 Registered Horse Power 1145 (nominal) 880 Owners The Texas Company Port belonging to Wilmington, Del.

**WATER TUBE BOILERS MAIN, AUXILIARY, OR DONKEY.** Manufacturers of Steel Bethlehem Steel Company  
 (Letter for Record One 30 inch dia. air tank) Date of Approval of plan July 20th, 1938 Number and Description or Type the tank  
 of Boilers One 30 inch dia. air tank Working Pressure 100 lbs. Tested by Hydraulic Pressure to 200 lbs. Date of Test July 27, 1938  
 No. of Certificate the tank Can each boiler be worked separately Yes Total Heating Surface of Boilers 27 cubic feet  
 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 One - 1" spring loaded Area of each valve approx. .7854 sq. in. Pressure to which they are adjusted 100 lbs. per sq. in.  
 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 bulkhead 12 inches Height of Boiler - Width and Length -  
**Steam Drums:** Number in each One Inside diameter 30 inches Material of plates Steel O.H. Thickness 5/16 inch  
 Range of Tensile Strength 45,000 lbs. minimum Are drum shell plates welded or flanged welded Description of riveting -  
 Cir. seams fusion welded long seams fusion welded Diameter of rivet holes in long seams - Pitch of Rivets -  
 Lap of plate or width of butt straps - Thickness of straps - Percentage strength of long joint 90% Rivets allowed -  
 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 - Depth and thickness of girders at centre (if fitted) - Distance apart - Number and pitch of stays in each - Working pressure by rules -  
**Steam Drum Heads or Ends:** Material Steel O.H. Thickness 5/16 inch Radius or how stayed 30" radius  
 Size of Manhole or Handhole 31" x 4 7/8" **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 - **Heads 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 -  
 Percentage strength of Joint - Diameter - Thickness of shell plates - Material -  
 Description of longitudinal joint - Diameter of Rivet Holes - Pitch of Rivets - Working Pressure of shell by Rules -  
**Crown or End Plates:** Material - Thickness - How stayed -

**SUPERHEATER.** 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 -  
 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,

Bethlehem Steel Company, Shipbuilding Division, Sparrows Point, Manufacturer.

Dates of Survey Two (including attendance at Lab. for welding test) July 25-27, 1938 Is the approved plan of boiler forwarded herewith Yes  
 while building One November 11th, 1938 Total No. of visits Three

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, etc.) This small air tank has been constructed under special survey and in accordance with the approved plan. The workmanship and materials are good. Reports of welding test is attached herewith also steel invoice. The tank subjected to an impact test by using 3 1/2 lbs. hammer whilst tank pressed hydraulically to 150 lbs. to verify welding, then pressure raised to 200 lbs. for a sustained duration and all joints & connections examined & found satisfactory. The tank now installed on board vessel & seen under working condition.

Survey Fee ... £ \$40.00: When applied for Jan. 3 1939  
 Travelling Expenses (if any) £ \$ 6.00: When received 24. 1. 1939 R.B.H.

Committee's Minute

Assigned See Rpt 4a (Bul No 6673) attached

NEW YORK JAN 11 1939

Engineer Surveyor to Lloyd's Register of Shipping.

© 2020  
 Lloyd's Register  
 Foundation  
 W160 0136