

Rpt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 7882

Received at London Office. 13 SEP 1943

Date of writing Report Aug. 10, 19 43 When handed in at Local Office Aug. 10, 19 43 Port of Baltimore, Maryland
 No. in Survey held at Baltimore, Maryland Date, First Survey June 30th, 1942 Last Survey May 18th, 19 43
 Reg. Bk. 26,30,9812 on the S.S. "SWEEP" (Ex CLEAN) (Number of Visits 24) {Gross 7223
 Tons {Net 5184
 Built at Philadelphia By whom built W. Cramp & Sons, S. & E.B. CO. When built 1919
 Engines made at Hamilton, Ohio-U.S.A. By whom made Hooven Owen Rentschler When made 1919 - 41
 Boilers made at Cartaret, New Jersey By whom made Foster Wheeler Corporation When made 12 - 41
 Nominal Horse Power 350 Owners War Shipping Administration Port belonging to New York

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

Bethlehem Steel Company

Date of Approval of plan October 21st 1942 Number and Description or Type of Boilers two, Foster Wheeler Water Tube Working Pressure 220 lbs Tested by Hydraulic Pressure to 460 lbs Date of Test 11-8-41
 No. of Certificate AB 6030 X 6031X Can each boiler be worked separately Yes Total Heating Surface of Boilers 4021 Sq.ft. 11-26-41
 Is forced draught fitted Yes Area of fire grate (coal) in each Boiler -
 No. and type of burners (oil) in each boiler three Todd variable No. and description of safety valves on each boiler two single spring loaded high lift per rule 50% of 22.959 = 11.479 sq. inches Pressure to which they are adjusted 220 lbs. 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 not near Height of boiler 22' 4 1/2"
 Width and Length 14' 4 1/2" 7' 7 7/8" Steam Drums:—Number in each boiler One Inside diameter 42"
 Thickness of plates 3/4" Range of Tensile Strength 65000 Min. Are drum shell plates welded or flanged fusion welded If fusion welded, state name of welding firm Foster Wheeler Corporation 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 1 9/32" - 2 1/32" Percentage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum 1 9/32" - 2 1/32" Pitch of tube holes 2 3/4" 2 1/4"
 Percentage strength of shell in way of tubes 48.7% - 54.8% Steam Drum Heads or Ends:—Range of tensile strength 65000 Min.
 Thickness of plates 3/4 Radius or how stayed radius Size of manhole or handhole 12" x 16" Water Drums:—Number in each boiler One Inside Diameter 32" Thickness of plates 5/8" Range of tensile strength 65000 Min. Are drum shell plates welded or flanged fusion welded If fusion welded, state name of welding firm Foster Wheeler Corporation Have all the requirements of the rules for Class I vessels been complied with Yes 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 1 9/32" - 2 1/32" Pitch of tube holes 2 3/4" 2 1/4"
 Percentage strength of drum shell in way of tubes 48.7% X 54.8% Water Drum Heads or Ends:—Range of Tensile strength 65000 Min.
 Thickness of plates 5/8" Radius or how stayed radius Size of manhole or handhole 12" X 16"
 Leaders 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 - Description of longitudinal joint - If fusion welded, state name of welding firm - Have all the requirements of the rules for Class I vessels been complied with - Diameter of rivet holes - Pitch of rivets - Thickness of straps - Percentage strength of long. joint - Plate - Rivet -
 Crown or End Plates:—Range of tensile strength - Thickness - Radius or how stayed -

UPERHEATER. Drums or Headers:—Number in each boiler

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 - 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 -
 Easing Gear. Has the spare gear required by the rules been supplied - Yes

The foregoing is a correct description,

Manufacturer.

Dates } During progress of } Is the approved plan of boiler forwarded herewith Yes
 Survey } work in shops - }
 while } During erection on }
 building } board vessel - }
Nov. 3, 4, 5, 7, 20, Dec. 3, 11, Jan 9, Feb. 6, 13, Total No. of visits 24
17, Mar. 8, 15, 18, 31, April, 13, 15, 21, 26, May 4, 11, 14, 15

this boiler a duplicate of a previous case - If so, state vessel's name and report No. -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have not been built under the Special of this Society, but have been erected on board the vessel under the supervision of the undersigned. The boilers have been hydrostatically tested in place with all fitting and piping examined under working condition and are eligible in my opinion to receive the notation 2 W.T. boilers - 220 lbs., W.P. '41 fitted 5.43.

Survey Fee £ \$200.00 When applied for, Aug. 10, 1943
 Travelling Expenses (if any) £ - When received, 19

Committee's Minute

signed N.B. made '41 fitted 5.43
B 220 lb

NEW YORK AUG 25 1943

Engineer Surveyor to Lloyd's Register of Shipping.

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 Foundation
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