

Rpt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 47899
27 OCT 1947

Received at London Office

Date of writing Report AUG 5TH 1947 When handed in at Local Office AUG 5 1947 Port of NEW YORK
 No. in Survey held at HOBOKEN N.J. Date, First Survey 4TH JUNE Last Survey 23 JULY 1947
 Reg. Bk. 36787 on the SS. "GRAVENCHON" EX "SEDAN" (Number of Visits 6) { Gross 10296
 Built at CHESTER PA By whom built SUN S.B. AND DRY DOCK CO. When built 4, 1945
 Engines made at LYNN MASS. By whom made GENERAL ELECTRIC CO. When made 4, 1945
 Boilers made at BARBERTON, OHIO By whom made BABCOCK AND WILCOX CO. When made 4, 1945
 Nominal Horse Power 1324 Owners GOVERNEMENT DE LA REPUBLIQUE FRANCAISE Port belonging to

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel BETHLEHEM AND WORTH.
 Date of Approval of plan AMERICAN BUREAU. Number and Description or Type of Boilers 2 - SINGLE PASS, STRAIGHT TUBE Working Pressure 500 PSI Tested by Hydraulic Pressure to 780 PSI Date of Test
 No. of Certificate ✓ Can each boiler be worked separately YES Total Heating Surface of Boilers 9868 11354
 Is forced draught fitted YES Area of fire grate (coal) in each Boiler OIL FIRED.
 No. and type of burners (oil) in each boiler 4 - B&W DECAGON BAILEY METER CO. CONTROLS No. and description of safety valves on each boiler 2 - 2" DIA SPRING LOADED HIGH LIFT Area of each set of valves per boiler { per rule 7.00 sq" Pressure to which they are adjusted 500 LB/sq" as fitted 6.28 sq" 1.77 psi
 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 5'-0" Height of boiler 21'-0"
 Width and Length 11'-10" X 16'-0" Steam Drums:—Number in each boiler ONE Inside diameter 42"
 Thickness of plates 1 5/16 AND 25/32 Range of Tensile Strength 70,000 MIN Are drum shell plates welded or flanged WELDED If fusion welded, state name of welding firm BABCOCK & WILCOX Have all the requirements of the rules for Class I vessels been complied with YES A.B. 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 42" Pitch of tube holes ✓
 Percentage strength of shell in way of tubes ✓ Steam Drum Heads or Ends:—Range of tensile strength 70,000 MIN
 Thickness of plates 1 1/4 Radius or how stayed ELLIPSOIDAL Size of manhole or handhole 12 X 16" 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 ✓
 Thickness of plates ✓ Radius or how stayed ✓ Size of manhole or handhole ✓
 Headers or Sections:—Number 14 Material O.H.S. Thickness 9/16 Tested by Hydraulic Pressure to 1000 PSI
 Tubes:—Diameter 1 1/4, 1 1/2, 2, 3 1/4, 4 1/2 Thickness # 11, 13, 14, 106, 5448W Number 219, 1148, 882, 56, 3615 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 ✓
 SUPERHEATER. Drums or Headers:—Number in each boiler TWO Inside Diameter 7 1/4" SQUARE
 Thickness 7/8 Material O.H.S. Range of tensile strength 55,000 PSI MIN 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 1 1/4 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 CANNOT BE SHUT OFF No. and description of Safety Valves ONE - 1 1/2" SINGLE HIGH LIFT Area of each set of valves 1.767 sq" Pressure to which they are adjusted 464 LB/sq" Is easing gear fitted YES
 Spare Gear. Has the spare gear required by the rules been supplied ✓

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building } During progress of work in shops - - }
 } During erection on board vessel - - }

Is the approved plan of boiler forwarded herewith yes

Total No. of visits

Is 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 W.T. Boilers and Superheaters have been built under the supervision of the U.S. Coast Guard and the American Bureau of Shipping. The scantlings have been verified as far as practicable. The workmanship is good, and the materials are sound. For opinions as to class etc please see Rpt 9.

Survey Fee £ See Rpt 9 When applied for, ✓ 19
 Travelling Expenses (if any) £ See Rpt 9 When received, ✓ 19

NEW YORK OCT 1 1947

Committee's Minute

Assigned 2 WTB - 500LB (OPT) 464 LBS

H. J. Daunders
 Engineer Surveyor to Lloyd's Register of Shipping.

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