

REPORT ON WATER TUBE BOILERS.

No. 11679

Received at London Office.

Date of writing Report July 13, 1959 When handed in at Local Office July 13, 19 59 Port of Baltimore, Maryland
 No. in Survey held at Baltimore, Maryland Date, First Survey June 10 Last Survey June 24, 19 59
 Reg. Bk. 3506 on the M.S. "HEDDA DAN" (Number of Visits 4) {Gross 5188
 Tons {Net
 Built at Beaumont, Texas By whom built Pennsylvania Shipyard, Inc. When built 1944
 Engines made at Milwaukee, Wis. By whom made Nordberg Manf. Corp. When made 1944
 Boilers made at Danville, N.Y. By whom made Foster Wheeler Corp. When made 1944
 Nominal Horse Power 951 Owners J. Lauritzen, Copenhagen Port belonging to Esberg

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

Date of Approval of plan _____ Number and Description or Type
 of Boilers one cross drum straight tube Working Pressure 65 lbs Tested by Hydraulic Pressure to 300 lbs Date of Test 27-10-44
 No. of Certificate American Bureau Can each boiler be worked separately yes Total Heating Surface of Boilers 1440 sq. ft.
 Is forced draught fitted waste heat Area of fire grate (coal) in each Boiler waste heat
 No. and type of burners (oil) in each boiler not fitted with burners No. and description of safety valves on
 each boiler two 1 1/2" dia. Crosby Spring Loaded Area of each set of valves per boiler {per rule _____
 as fitted 3.5 sq. in. Pressure to which they
 are adjusted _____ 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 no woodwork Height of boiler 13' 9 1/2"
 Width and Length 4' 7 5/8" x 10' 8" Steam Drums:—Number in each boiler one Inside diameter 36"
 Thickness of plates 11/16" 21/32" 12/32" 17/32" Range of Tensile Strength 65,000 lbs min. Are drum shell plates welded
 or flanged welded If fusion welded, state name of welding firm Wyatt Manf. & Boiler Co. Have all the requirements of the rules
 for Class I vessels been complied with U.S.C.G. 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 3 1/32" Pitch of tube holes 4 7/8"
 Percentage strength of shell in way of tubes _____ Steam Drum Heads or Ends:—Range of tensile strength 65,000 lbs min.
 Thickness of plates 11/16" Radius or how stayed Ellisodial 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 one Material steel Thickness 7/16" x 6 5/8" OD Tested by Hydraulic Pressure to _____
 Tubes:—Diameter 2" OD Thickness 9 gauge Number 64 grided 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 _____

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 _____

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 } American Bureau & U.S.C.G.
 while } work in shops - - }
 building } During erection on }
 board vessel - - - }

Is the approved plan of boiler forwarded herewith _____

Total No. of visits _____

Is this boiler a duplicate of a previous case yes If so, state vessel's name and report No. "GERDA DAN" PAULA DAN", "MARNA DAN" & "TENNA DAN"

GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c.)
 This waste heat water tube boiler designed and partly constructed by Foster Wheeler Corp. was constructed under
 Special Survey of American Bureau & U.S.C.G. now examined internally. The boilers and machinery of this vessel are in
 good condition and eligible in my opinion to be classed with this Society with record 2WTDB 65 lbs, with record of
 DBS 6.59 when the boilers has been examined under steam and safety valves adjusted under steam.

Survey Fee _____ When applied for, _____
 Travelling Expenses (if any) £ _____ : : When received, _____ 19 _____

Committee's Minute _____

Assigned _____

NEW YORK JUL 15 1959
 See FE Rpt. 5c. Bae. 11679

Engineer Surveyor to Lloyd's Register of Shipping.

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