

# REPORT ON WATER TUBE BOILERS.

No. 48917

Received at London Office

Date of writing Report: 1<sup>st</sup> DEC. 19 48 When handed in at Local Office: 1<sup>st</sup> DECEMBER 19 48 Port of: NEW YORK, N.Y. 19 FEB 1949  
 No. in Survey held at: HOBOKEN N.J. Date, First Survey: 25<sup>th</sup> OCTOBER Last Survey: 19<sup>th</sup> NOVEMBER 19 48  
 Reg. Bk. 5055 on the SS. HADJOTIS. Ex "NIKI"  
 (Number of Visits... 3) Tons { Gross 7240 Net 4390  
 Built at: JACKSONVILLE, FLA. By whom built: ST JOHN'S RIVER SHIPBUILDING CO When built: 19 45  
 Engines made at: HAMILTON, OHIO. By whom made: GENERAL MACHINERY CORP When made: 19 45  
 Boilers made at: LOUISVILLE, KY. By whom made: HENRY VOGT MACHY CO When made: 19 45  
 Nominal Horse Power: 659 Owners: KASSOS STEAM NAVIGATION CO Port belonging to: SYRA

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel: LUKINS STEEL CO

Date of Approval of plan: ABS + USCG (APPROVED) Number and Description or Type: P1-12-44  
 of Boilers: TWO CROSS DRUM S.H. STRAIGHT TUBE Working Pressure: 225 LBS Tested by Hydraulic Pressure to: 500 LBS Date of Test: 5.13.11.44  
 No. of Certificate: ABS (P) 262LE(S) 2594 Can each boiler be worked separately: YES Total Heating Surface of Boilers: Supt 264.5 | 10233.90 F Total  
 Is forced draught fitted: YES Area of fire grate (coal) in each Boiler: OIL FIRED  
 No. and type of burners (oil) in each boiler: FOUR "JODD HEXPRESS" TYPE No. and description of safety valves on each boiler: ONE 1 1/2 DIA DUPLEX MAIN. ONE 1 1/2 DIA SIMPLEX SUPERHEATER Area of each set of valves per boiler { per rule 25.14 as fitted 1.76 } 26.9/50 INS Pressure to which they are adjusted: 225 + 215 LBS Are they fitted with easing gear: YES In case of donkey boilers state whether steam from main boilers can enter the donkey boiler: NONE Smallest distance between boilers or uptakes and bunkers or woodwork: 34" Height of boiler: 16'-5 7/8"  
 Width and Length: 14'-7 1/4" + 17'-10 1/2" Steam Drums: Number in each boiler: ONE Inside diameter: 47 3/4"  
 Thickness of plates: 15/16" Range of Tensile Strength: 70 000 LBS MIN Are drum shell plates welded or flanged: FUSION WELDED If fusion welded, state name of welding firm: HENRY VOGT MACHY CO Have all the requirements of the rules for Class I vessels been complied with: ABS + USCG 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: 4 1/2" ✓ Pitch of tube holes: 7" ✓  
 Percentage strength of shell in way of tubes: ✓ Steam Drum Heads or Ends:—Range of tensile strength: 65 000 LBS MIN  
 Thickness of plates: 15/16" Radius or how stayed: ELLIPSOIDIAL 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: 22 ✓ Material: OH STEEL Thickness: 19/32" ✓ Tested by Hydraulic Pressure to: 500 LBS  
 Tubes:—Diameter: 4" + 2" ✓ Thickness: 6 GA + 10 GA Number: 44 + 602 Steam Dome or Collector:—Description of joint to shell: ✓ Inside diameter: ✓ Thickness of shell plates: ✓ Range of tensile strength: ✓  
 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: 6 5/8" SQUARE  
 SUPERHEATER. Drums or Headers:—Number in each boiler: TWO ✓ Inside Diameter: 6 5/8" SQUARE  
 Thickness: 5/8" ✓ Material: OH STEEL 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: ABS. 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: 22, 2" + 10 GA.  
 Tested by Hydraulic Pressure to: 500 LBS Date of Test: ✓ Is a safety valve fitted to each section of the superheater which can be shut off from the boiler: CANNOT SHUT OFF ✓ No. and description of Safety Valves: ONE 1 1/2 DIA SIMPLEX (CONSOLIDATED) ✓ Area of each set of valves: 1.76 SQ INS. ✓ Pressure to which they are adjusted: 215 LBS Is easing gear fitted: YES ✓  
 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 - - }  
 while } 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: YES If so, state vessel's name and report No.: SS VIKDAL RPT N° 47695  
 GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The two water tube boilers were constructed under supervision of the American Bureau of Shipping + USCG. The scantlings have been verified, as far as practicable, tested hydrostatically, examined throughout + seen under steam. The boilers + machinery of this vessel are in good condition + eligible in our opinion, to be classed with this Society with record of L.M.C. 11-48 (2 W.T.B. 250 LBS. SPT)

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

© 2021  
 Lloyd's Register Foundation  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK FEB 2 - 1949  
 Assigned 2 W.T.B. (SPT) 250 LBS.

PORT BOILER.

U.S.C.G. 8997  
SHELL 70 000 LBS  
HEADS 65 000 LBS  
HYDRO TEST 375 LBS  
ORIGIANL W.P. 250 LBS  
HENRY VOQT MCH CO.  
LOUISVILLE KY  
STEEL LUKINS STEEL CO  
COATSVILLE  
DATE 1-19-45 J.O.M.  
SHOP HYDRO 500 LBS  
DEC. 1-44 C.W.B.  
ABS-A 537B OLH 1-2-45  
A 85B. LE 262  
H.V.M.CO. NO 15311-113  
WP 250 TP 500  
MEL 12-1.44

STARBOARD BOILER.

U.S.C.G. 8994  
SHELL 70 000 LBS  
HEADS 65 000 LBS  
HYDRO TEST 375 LBS  
ORIGINAL W.P. 250 LBS  
HENRY VOQT MCH CO  
LOUISVILLE. KY.  
STEEL LUKINS STEEL CO  
COATSVILLE.  
DATE 1-19-45 J.O.M.  
SHOP HYDRO 500 LBS  
NOV 13-1944 C.W.B.  
ABS-A 537B OLH 1-2-45  
A 83B. LE 259  
H.V.M.CO NO 15311-110  
WP 250. TP 500.  
MEL 11-30-44.





© 2021

Lloyd's Register  
Foundation