

REPORT ON WATER TUBE BOILERS.

Int. Rpt. 6987

DEC 1946

Date of writing Report: 7th Nov. 46
 26th June 1946 When handed in at Local Office: 26th June 46. Port of: Halifax, Nova Scotia, Quebec, P.Q.
 No. in Survey held at: Amherst, Nova Scotia, Date, First Survey: 10th July 16th May, Last Survey: 31st Oct. 46
 Reg. Bk. 88267 on the "C" Type Coaster M/V "MAYGLEN" (ex "Ottawa Mayglen") Tons: Gross 342.26, Net 117.20
 Built at: Quebec, P.Q. By whom built: St. Lawrence Metal & Marine Works Inc. When built: 1946
 Engines made at: San Francisco, Calif. By whom made: Enterprise Eng. & Foundry Co. Works Inc. When made: 1944
 Boilers made at: Amherst, N. S. By whom made: Robb Engineering Works Ltd. When made: 1946.
 Nominal Horse Power: 112.3 Owners: Mayglen Shipping Co. Port belonging to: Montreal

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel: The Steel Co. of Canada.
 Date of Approval of plan: December 14th, 1945, New York Number and Description or Type of Boilers: One-Admiralty type water tube Working Pressure: 200 Tested by Hydraulic Pressure to: 350 Date of Test: 14-6-46
 No. of Certificate: IR 107 Can each boiler be worked separately: ----- Total Heating Surface of Boilers: 620 square feet.
 Is forced draught fitted: Yes Area of fire grate (coal) in each Boiler: Oil fired
 No. and type of burners (oil) in each boiler: One Watt's type No. and description of safety valves on each boiler: One 1 1/2" dia. Twin "Morrison" approved type
 Area of each set of valves per boiler: { per rule: 3.6, as fitted: 4.8 Pressure to which they are adjusted: 200 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: 3'-6" Height of boiler: 11'-4"
 Width and Length: 5'-6" and 9'-8" Steam Drums:—Number in each boiler: One Inside diameter: 31"
 Thickness of plates: 9/16" Range of Tensile Strength: 60020 lbs. Are drum shell plates welded or flanged: rivetted If fusion welded, state name of welding firm: rivetted construction Have all the requirements of the rules for Class I vessels been complied with: ----- Description of riveting:—Cir. seams: Single long. seams: Double Butt
 Diameter of rivet holes in long. seams: 15/16" Pitch of rivets: 3 1/2" Thickness of straps: 9/16" Percentage strength of long. joint:—Plate: 73.2% Rivet: 101% Diameter of tube holes in drum: 3-1/32" Pitch of tube holes: 6-3/8"
 Percentage strength of shell in way of tubes: 53.8% Steam Drum Heads or Ends:—Range of tensile strength: 62480-63580 lbs.
 Thickness of plates: 1/2" Radius or how stayed: 2' - 6" 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: 2 Material: O.H. Steel Thickness: 7/8" & 5/8" Tested by Hydraulic Pressure to: 350 lbs. per sq. in.
 Tubes:—Diameter: 3" and 2 1/2" O.D. Thickness: 8 and 9 BWG Number: 22-2 1/2" O.D. 8 BWG 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: ----- Inside Diameter: -----
 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: -----
 The foregoing is a correct description, ROBB ENGINEERING WORKS, LIMITED Manufacturer. J.A. Mackenzie June 14-46

Dates of Survey while building: During progress of work in shops: 16th and 30th May, and 14th June, 1946 Is the approved plan of boiler forwarded (prewith): -----
 while building: During erection on board vessel: 10th July, 1946 to 31st Oct. 1946. Total No. of visits: -----

Is this boiler a duplicate of a previous case: Yes----- If so, state vessel's name and report No. 5473 -----

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built in conformity with the Society's Rules and Regulations, and to approved plans. The workmanship is good, and in my opinion this boiler is eligible to be fitted into a vessel classed with the Society. This Boiler has been satisfactorily fitted aboard this vessel and tried under full working conditions. Safety valves have been adjusted under steam and tested for accumulation and thickness of washers noted.
 Survey Fee: \$40.00 (Credited when applied for, 26th June 1946. This vessel is eligible, in my opinion, for a record of L.M.C., 10, 46.
 Travelling Expenses (if any): \$16.00 Halifax Office When received, 19
 Engineer Surveyor to Lloyd's Register of Shipping.

Classification B1R 100⁰⁰ - Nov. 20/46
 Committee's Minute
 Assigned: See F.E. Muehy, rpt.
 Lloyd's Register Foundation
 W1178-0083

Is a Report also sent to the Registrar of Shipping?

Removed 10-50