

REPORT ON WATER TUBE BOILERS.

No. 5480

Incl. Rpt. 6987

7th Nov. 46 8th Nov. 46 Received at London Office. Quebec, P.Q.
 Date of writing Report 26th June 1946 When handed in at Local Office 26th June 46. Port of Halifax, Nova Scotia.
 No. in Survey held at Quebec, P.Q. 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") Continuous Attendance (Number of Visits 3) Gross 342.26 Tons 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. 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 1½" dia. Twin "Morrison" approved type
 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 3½" 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 1½" 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 2½" O.D. Thickness 8 and 9 BWG Number 22-2½" O.D. 8BWG 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 -----
 Radius or how stayed -----
 Crown or End Plates:—Range of tensile strength ----- Thickness -----
 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.

June 14-46

Dates of Survey } During progress of } 16th and 30th May, and 14th June, 1946
 while } work in shops - - }
 building } During erection on } 10th July, 1946 to 31st Oct. 1946. Total No. of visits
 board vessel - - }

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
 Travelling Expenses (if any) \$16.00
 Classification B.R. 100⁰⁰ - Nov. 20/46
 Committee's Minute
 Assigned See F.E. Muehy. rpt.

This vessel is eligible, in my opinion, for a record of L.M.C., 10, 46.
 Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

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