

# REPORT ON WATER TUBE BOILERS.

No. 5474

3 - MAR 1947

Received at London Office.

of writing Report 26th June 1946 When handed in at Local Office 26th June 1946 Port of Halifax, Nova Scotia,  
 in Survey held at Amherst, Nova Scotia, Date, First Survey 14th March, Last Survey 26th April, 1946  
 Bk. on the "C" Type Coaster "MARY SWEENEY" (launched as Ottawa Maybeech) (Number of Visits 2) Tons { Gross 518  
 Net 233  
 at Saint John, N. B. By whom built St. John Drydock & S.B. Co. Ltd. When built 1947  
 es made at Oakland, Cal., U.S.A. By whom made Atlas Imperial Diesel Engine Co. Ltd. When made 1944  
 s made at Amherst, N. S. By whom made Robb Engineering Works Ltd., When made 1946.  
 al Horse Power 98.9 Owners W. Lawrence Sweeney, Esq. Port belonging to Saint John, N.B.

**WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.**—Manufacturers of Steel The Steel Co. of Canada & Carnegie Illinois Steel Corporation.  
 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 26-4-46  
 of Certificate IR 101 Can each boiler be worked separately --- Total Heating Surface of Boilers 620 square feet.  
 of draught fitted Yes Area of fire grate (coal) in each Boiler Oil fired  
 and type of burners (oil) in each boiler One - A.E. Watts patent No. and description of safety valves on  
 boiler One 1 1/4" 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  
 adjusted 200 lbs./sq. in. Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter  
 donkey boiler --- Smallest distance between boilers ~~or bunkers~~ 3ft. 6 ins. Height of boiler 11'-4"  
 h and Length 5'-6" x 9'-8" Steam Drums:—Number in each boiler One Inside diameter 31"  
 ness of plates 9/16" Range of Tensile Strength 58420 lbs. Are drum shell plates welded  
 nged rivettted If fusion welded, state name of welding firm rivettted construction Have all the requirements of the rules  
 lass I vessels been complied with --- Description of riveting:—Cir. seams Single long. seams Double Butt  
 eter of rivet holes in long. seams 15/16" Pitch of rivets 3 1/2" Thickness of straps 9/16" Percentage strength of  
 joint:—Plate 73.2% Rivet 101% Diameter of tube holes in drum 3-1/32" Pitch of tube holes 6-3/8"  
 ntage strength of shell in way of tubes 53.8% Steam Drum Heads or Ends:—Range of tensile strength 58688 lbs.  
 ness of plates 1/2" Radius or how stayed 2'-6" Size of manhole or handhole 12" x 16" Water Drums:—Number  
 h boiler --- Inside Diameter --- Thickness of plates --- Range of tensile strength --- Are drum shell plates  
 d or flanged --- If fusion welded, state name of welding firm --- Have all the requirements of the rules  
 lass I vessels been complied with --- Description of riveting:—Cir. seams --- long. seam ---  
 eter of rivet holes in long. seams --- Pitch of rivets --- Thickness of straps ---  
 ntage strength of long. joint:—Plate --- Rivet --- Diameter of tube holes in drum --- Pitch of tube holes ---  
 ntage strength of drum shell in way of tubes --- Water Drum Heads or Ends:—Range of Tensile strength ---  
 ness of plates --- Radius or how stayed --- Size of manhole or handhole ---  
 ers or Sections:—Number 2 Material O.H. Steel Thickness 7/8" & 8/8" Tested by Hydraulic Pressure to 350 lbs. per  
 s:—Diameter 3" and 2 1/2" O.D. Thickness 8 and 9 BWG Number 110-2 1/2" O.D. 9 BWG Steam Dome or Collector:—Description of  
 to Shell --- Inside diameter --- Thickness of shell plates --- Range of tensile  
 h --- Description of longitudinal joint --- If fusion welded, state name of welding  
 Have all the requirements of the rules for Class I vessels been complied with --- Diameter of rivet holes ---  
 of rivets --- Thickness of straps --- Percentage strength of long. joint --- Plate --- Rivet ---  
 n or End Plates:—Range of tensile strength --- Thickness --- Radius or how stayed ---  
**SUPERHEATER. Drums or Headers:**—Number in each boiler --- Inside Diameter ---  
 ness --- Material --- Range of tensile strength --- Are drum shell plates welded  
 nged --- If fusion welded, state name of welding firm --- Have all the requirements of the rules  
 lass I vessels been complied with --- Description of riveting:—Cir. seams --- long. seams ---  
 eter of rivet holes in long. seams --- Pitch of rivets --- Thickness of straps --- Percentage strength of  
 joint:—Plate --- Rivet --- Diameter of tube holes in drum --- Pitch of tube holes --- Percentage strength of  
 shell in way of tubes --- Drum Heads or Ends:—Thickness --- Range of tensile strength ---  
 or how stayed --- Size of manhole or handhole --- Number, diameter, and thickness of tubes ---  
 by Hydraulic Pressure to --- Date of Test --- Is a safety valve fitted to each section of the superheater which  
 shut off from the boiler --- No. and description of Safety Valves --- Area of each set  
 ves --- Pressure to which they are adjusted --- Is easing gear fitted ---  
**E Gear.** Has the spare gear required by the rules been supplied ---

The foregoing is a correct description,

J. J. Mackenzie Manufacturer.

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits ---

During progress of work in shops 14th March and 26th April, 1946.  
 During erection on board vessel ---

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

**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 opinion this boiler is eligible to be fitted into a vessel classed with the Society.

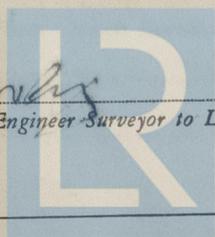
Survey Fee \$40.00 : When applied for, June 26 1946  
 Travelling Expenses (if any) \$16.00 : When received, 19

FRI. 9 APR 1946

Engineer-Surveyor to Lloyd's Register of Shipping.

Committee's Minute

For minute see St. John. P.E. Reg. No. 1036



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