

# REPORT ON WATER TUBE BOILERS.

No. 6098

Received at London Office

22 MAR 1944

of writing Report **3rd Feb., 1944** When handed in at Local Office **3rd Feb., 1944** Port of **Vancouver, B. C.**  
 in Survey held at **North Vancouver, B. C.** Date, First Survey **12th Oct., 1944** Last Survey **3rd Feb., 1944**  
 on the **Steel Single Screw Steamer "MEWATA PARK"** (Number of Visits **30**) { Gross **7160.59**  
 at **North Vancouver, B. C.** By whom built **Burrard Dry Dock Co. Ltd.** Tons { Net **4244.75**  
 nes made at **Lachine, P.Q.** By whom made **Canadian Allis-Chalmers** When built **1944**  
 rs made at **Vancouver, B. C.** By whom made **Vancouver Iron Works, Ltd.** When made **1944**  
 al Horse Power **628** Owners **Minister of Munitions & Supply of Canada (Mtrs. - Park Steamship Co. Ltd.)** When made **1944**  
 Post belonging to **Montreal, P.Q.**

ATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY. Manufacturers of Steel **Steel Co. of Canada, Page-Hersey Tubes, Combustion Eng. Co., Chattanooga.**  
 of Approval of plan **17-7-43** Number and Description or Type  
 boilers **2 Sinnous Header Watertube** Working Pressure **250 lbs. (Spt. 230 lb.)** Tested by Hydraulic Pressure to **425 lbs.** Date of Test **20-10-43 & 21-10-43**  
 of Certificate **Nos. 593 & 596** Can each boiler be worked separately **Yes** Total Heating Surface of Boilers **9704 sq. ft. (2 Birs.)**  
 need draught fitted **Yes** Area of fire grate (coal) in each Boiler **--**  
 and type of burners (oil) in each boiler **4 Todd "Hex-Press" Burners**

boiler **One Twin 4" spring loaded** No. and description of safety valves on  
 adjusted **250 lbs.** Area of each set of valves per boiler { per rule **22.9 sq. in.** as fitted **25.14 " "** Pressure to which they are adjusted **23.9 with 9" at 450°**  
 donkey boiler **--** Are they fitted with easing gear **Yes** In case of donkey boilers state whether steam from main boilers can enter  
 th and Length **14'-7 1/2" x 18'-7 1/2"** Smallest distance between boilers or uptakes and bunkers or woodwork **23"** Height of boiler **16'-5-5/8"**

ness of plates **15/16"** Steam Drums:—Number in each boiler **One** Inside diameter **47 1/2"**  
 angled **Welded** Range of Tensile Strength **70,000 to 82,000 lbs.** Are drum shell plates welded  
 Class I vessels been complied with **Yes** If fusion welded, state name of welding firm **Vancouver Iron Works, Ltd.** Have all the requirements of the rules  
 meter of rivet holes in long. seams **--** Description of riveting:—Cir. seams **--** long. seams **--**  
 joint:—Plate **--** Rivet **--** Thickness of straps **--** Percentage strength of

entage strength of shell in way of tubes **42.5%** Diameter of tube holes in drum **4-1/32"** Pitch of tube holes **7"**  
 kness of plates **15/16"** Radius or how stayed **38"** Size of manhole or handhole **12" x 16"** Water Drums:—Number  
 each boiler **One** Inside Diameter **5 1/2" sq.** Thickness of plates **3/4"** Range of tensile strength **60,000 - 70,000 lbs.** drum shell plates  
 led or flanged **Solid drawn** If fusion welded, state name of welding firm **Certs. received** Have all the requirements of the rules  
 Class I vessels been complied with **--** Description of riveting:—Cir. seams **--** long. seam **--**

meter of rivet holes in long. seams **--** Pitch of rivets **--** Thickness of straps **--**  
 entage strength of long. joint:—Plate **--** Rivet **--** Diameter of tube holes in drum **4-1/32"** Pitch of tube holes **7"**  
 entage strength of drum shell in way of tubes **42.5%** Water Drum Heads or Ends:—Range of Tensile strength **60,000 to 70,000 lbs.**  
 kness of plates **9/16" min.** Radius or how stayed **Handholes in end** Size of manhole or handhole **4 1/2" x 5 1/2"**

aders or Sections:—Number **22** Material **Steel** Thickness **9/16"** Tested by Hydraulic Pressure to **500 lbs.**  
 es:—Diameter **2" & 4"** Thickness **10 & 6 BWG (.134" & .203")** Number **602-2" 44-4"** Steam Dome or Collector:—Description of  
 t to Shell **--** Inside diameter **--** Thickness of shell plates **--** Range of tensile  
 ngth **--** 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 **--**  
 b of rivets **--** Thickness of straps **--** Percentage strength of long. joint **--** Plate **--** Rivet **--**  
 own or End Plates:—Range of tensile strength **--** Thickness **--** Radius or how stayed **--**

UPERHEATER. Drums or Headers:—Number in each boiler **Two** Inside Diameter **6" square**  
 kness **5/8"** Material **Steel** Range of tensile strength **60,000 to 70,000 lbs.** Are drum shell plates welded  
 langed **Forged** If fusion welded, state name of welding firm **--** Have all the requirements of the rules  
 Class I vessels been complied with **--** Description of riveting:—Cir. seams **--** long. seams **--**

meter of rivet holes in long. seams **--** Pitch of rivets **--** Thickness of straps **--** Percentage strength of  
 joint:—Plate **--** Rivet **--** Diameter of tube holes in drum **2-1/64"** Pitch of tube holes **3-3/4"** Percentage strength of  
 n shell in way of tubes **46%** Drum Heads or Ends: **Welded to inlet and outlet nozzles.** Range of tensile strength **--**  
 us or how stayed **--** Size of manhole or handhole **4 1/2" x 5 1/2"** Number, diameter, and thickness of tubes **22 off 2" OD 10BWG .134 wall.**

ed by Hydraulic Pressure to **425 lbs.** Date of Test **20-10-43 & 21-10-43** Is a safety valve fitted to each section of the superheater which  
 be shut off from the boiler **Yes** No. and description of Safety Valves **One** Area of each set  
 valves **1.76 sq. inches** Pressure to which they are adjusted **230 lbs.** Is easing gear fitted **No**

are Gear. Has the spare gear required by the rules been supplied **Yes**  
 e. Headers, Superheater headers and mud drums  
 at Chattanooga, Tennessee, under American  
 Bureau Inspection.

The foregoing is a correct description,  
**VANCOUVER IRON WORKS LTD.**  
 Manufacturer.

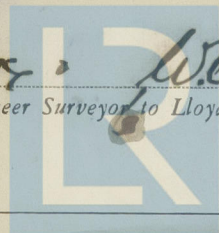
Is the approved plan of boiler forwarded herewith **No**  
 Plans in U.K.  
 Total No. of visits **30**  
 During progress of work in shops -- **1943. Oct. 12, 15, 16, 19, 20, 21, 22, 23.**  
 During erection on board vessel -- **1943. Dec. 13, 14, 16, 23, 29, 30.**  
**1944. Jan. 3, 4, 6, 8, 18, 19, 20, 21, 22, 24, 26, 27, 28.**  
**Feb. 1, 2, 3.**

his boiler a duplicate of a previous case **Yes** If so, state vessel's name and report No. **"FORT COLUMBIA" (Vcr. Report No. 5942)**  
 GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **These boilers have been built and fitted on**  
**ard under Special Survey in accordance with the approved plans, New York letters and the Rules.**  
**e workmanship is good and the materials tested as per Rule. Satisfactorily tested under hydraulic**  
**essure as above, examined under working conditions, safety valves adjusted to the W.P. and a**  
**tisfactory accumulation test carried out, 3rd Feb., 1944**

Survey Fee **\$150.00** When applied for **3rd Feb., 1944**  
 Travelling Expenses (if any) **\$ 15.00** When received, **19**  
 Committee's Minute  
 signed **see minute on 3rd Feb.**

FRI. 14 APR 1944

**W.B. Baillie**  
 Engineer Surveyor to Lloyd's Register of Shipping



Lloyd's Register  
 Foundation