

REPORT ON WATER TUBE BOILERS.

No. 6102

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of writing Report **14th Feb., 1944** When handed in at Local Office **14th Feb., 1944** Port of **Vancouver, B. C.**
o. in Survey held at **Vancouver, B. C.** Date, First Survey **15th Oct., 1943** Last Survey **11th Feb., 1944**
g. Bk. on the **Steel Single Screw Steamer "LOUISBOURG PARK"** (Number of Visits **31**) { Gross **7160.33**
Tons { Net **4244.61**
at **Vancouver, B. C.** By whom built **Burrard Dry Dock Co. Ltd.** When built **1944**
ines made at **Lachine, P.Q.** By whom made **Canadian Allis-Chalmers Co.** When made **1944**
ers made at **Vancouver, B. C.** By whom made **Vancouver Iron Works, Ltd.** When made **1944**
1/4 Final Horse Power **628** ✓ Owners **Minister of Munitions & Supply of Canada (Mgrs. Park Steamship Co. Ltd.)** Port 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.**
e of Approval of plan **17-7-43** Number and Description or Type
Boilers **2 Sinuous Header Watertube** Working Pressure **250 lbs. (Spt. 230 lb.)** ✓ Tested by Hydraulic Pressure to **425 lbs.** Date of Test **22-10-43 NN**
of Certificate **Nos. 597 & 599** Can each boiler be worked separately **Yes** ✓ Total Heating Surface of Boilers **9704 sq. ft. (2 Birs.)** ✓
forced draught fitted **Yes** ✓ Area of fire grate (coal) in each Boiler **—**
and type of burners (oil) in each boiler **4 Todd "Hex - Press" Burners** ✓ No. and description of safety valves on
boiler **One Twin 4" spring loaded** ✓ Area of each set of valves per boiler { per rule **22.9 sq. in.** *ex Spt 23.9 with Spt at 45°*
as fitted **25.14 " "** ✓ Pressure to which they
adjusted **250 lbs.** ✓ 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 uptakes and bunkers or woodwork **23" ✓** Height of boiler **16'-5-5/8**
th and Length **14'-7 1/2" x 18'-7 1/2"** ✓ Steam Drums:—Number in each boiler **One** ✓ Inside diameter **47 3/8"** ✓
ckness of plates **15/16"** ✓ Range of Tensile Strength **70,000 to 82,000 lbs.** ✓ Are drum shell plates welded
langed **Welded** ✓ If fusion welded, state name of welding firm **Vancouver Iron Works, Ltd.** ✓ Have all the requirements of the rules
Class I vessels been complied with **Yes** ✓ 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 **4-1/32"** ✓ Pitch of tube holes **7"** ✓
centage strength of shell in way of tubes **42.5%** ✓ Steam Drum Heads or Ends:—Range of tensile strength **65,000 to 77,000 lbs.** ✓
ckness of plates **15/16"** ✓ Radius or how stayed **38"** ✓ Size of manhole or handhole **12" x 16"** ✓ Water Drums:—Number
ach boiler **One** ✓ Inside Diameter **5 1/2" sq.** ✓ Thickness of plates **3/4"** ✓ Range of tensile strength **60,000-70,000 lbs.** ✓ Are drum shell plates
led or flanged **Solid drawn** ✓ 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. seam **—** ✓
meter of rivet holes in long. seams **—** ✓ Pitch of rivets **—** ✓ Thickness of straps **—** ✓
centage strength of long. joint:—Plate **—** ✓ Rivet **—** ✓ Diameter of tube holes in drum **4-1/32"** ✓ Pitch of tube holes **7"** ✓
centage 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.** ✓
ckness of plates **9/16" min.** ✓ Radius or how stayed **Handholes in end** ✓ Size of manhole or handhole **4 1/2" x 5 1/2"** ✓
iders 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
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 **—** ✓
wn or End Plates:—Range of tensile strength **—** ✓ Thickness **—** ✓ Radius or how stayed **—** ✓
PERHEATER. Drums or Headers:—Number in each boiler **Two** ✓ Inside Diameter **6" square** ✓
ckness **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 **22-10-43 & 26-10-43** ✓ 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** ✓

re Gear. Has the spare gear required by the rules been supplied **Yes**
te:— **Headers, Superheater headers and mud drums**
manufactured by Combustion Engineering Co. Inc. ✓
at Chattanooga, Tennessee, under American
Bureau Inspection.

The foregoing is a correct description.

VANCOUVER IRON WORKS LTD.

R. J. Brown

Manufacturer.

ates } During progress of **1943. Oct. 15, 16, 20, 21, 22, 23, 26, 27, 28.** Is the approved plan of boiler forwarded herewith **No**
urvey } work in shops **—** ✓ Plans in U.K.
hile } During erection on **1943. Dec. 15, 22, 28. 1944. Jan. 3, 8, 10,** Total No. of visits **31**
lding } board vessel **1944. Jan. 12, 13, 14, 15, 19, 21, 26, 27, 28, 29.**
Feb. 1, 3, 7, 9, 10, 11.

is 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.
g. 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
satisfactory accumulation test carried out. 11th. Feb. 1944
Survey Fee **£150.00** : When applied for **11th. Feb. 1944** **RB**
Travelling Expenses (if any) **£15.00** : When received, **✓** 19

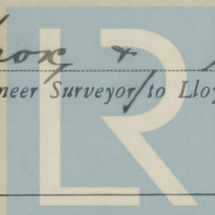
mmittee's Minute

signed

THURS 27 APR 1944

So P. made

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register of Shipping

003467-003473-0139