

REPORT ON WATER TUBE BOILERS.

No. 6046

Received at London Office.

12 FEB 1944

Date of writing Report **8th Dec. 43** When handed in at Local Office **8th Dec. 43** Port of **Vancouver, B.C.**
 No. in Survey held at **North Vancouver, B.C.** Date, First Survey **August 11, 1943** Last Survey **November 29th 19 43**
 Reg. Bk. on the **Steel Single Screw Steamer, "BEATON PARK"** (Number of Visits **31**) Gross **7163.90**
 Tons Net **4250.28**
 Built at **North Vancouver, B.C.** By whom built **Burrard Dry Dock Co. Ltd.** When built **1943**
 Engines made at **Toronto, Ont.** By whom made **John Inglis Co. Ltd.** When made **1943**
 Boilers made at **Vancouver, B.C.** By whom made **Vancouver Iron Works Ltd.** When made **1943**
 Nominal Horse Power **643 628** Owners **Park Steamship Co. Ltd.,** Port belonging to **-----**

WATER TUBE BOILERS—MAIN, ~~XXXXXXXXXXXXXXXXXXXX~~ Manufacturers of Steel **Steel Co. of Canada Page-Hersey Tubes & Combustion Eng. Co., Chattanooga**
 Date of Approval of plan **17-7-43** Number and Description of Type **2 Sinuous Header Watertube**
 Working Pressure **250 lbs.** Tested by Hydraulic Pressure to **425 lbs.** Date of Test **18-8-43**
 No. of Certificate **558 and 559** Can each boiler be worked separately **Yes** Total Heating Surface of Boilers **9,704 sq. ft (2Blrs.)**
 Is forced draught fitted **Yes** Area of fire grate (coal) in each Boiler **---**
 No. and type of burners (oil) in each boiler **4- Todd "Hex Press" Burners**
 No. and description of safety valves on each boiler **One Twin 4" Consolidated** Area of each set of valves per boiler { per rule **22.9 sq. in.** as fitted **25.14 sq. in.** Pressure to which they are adjusted **250 lbs.** In case of donkey boilers state whether steam from main boilers can enter be donkey boiler **-----**
 Smallest distance between boilers or uptakes and bunkers or woodwork **23"** Height of boiler **16'-5-5/8"**
 Width and Length **14'-7 3/4" x 18'-7 1/2"** Steam Drums:—Number in each boiler **One** Inside diameter **47-3/8"**
 Thickness of plates **15/16"** Range of Tensile Strength **70,000 to 82,000 lbs.** Are drum shell plates welded or flanged **welded** If fusion welded, state name of welding firm **Vancouver Iron Works, Limited** Have all the requirements of the rules or Class I vessels been complied with **Yes**
 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 **4-1/32"** Pitch of tube holes **7"**
 Percentage strength of shell in way of tubes **42.5** Steam Drum Heads or Ends:—Range of tensile strength **65,000 to 77,000 lbs.**
 Thickness of plates **15/16"** Radius or how stayed **38"** Size of manhole or handhole **12" x 16"** Water Drums:—Number in each boiler **One** Inside diameter **5 3/4" sq.** Thickness of plates **3/4"** Range of tensile strength **60000-70000 lbs.** Are drum shell plates welded or flanged **solid drawn** If fusion welded, state name of welding firm **-----** Have all the requirements of the rules or 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 **4-1/32"** Pitch of tube holes **7"**
 Percentage 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.**
 Thickness of plates **9/16" min.** Radius or how stayed **handholes in end** Size of manhole or handhole **4 1/2" x 5 1/2"**
 Leaders or Sections:—Number **22** Material **Steel** Thickness **9/16"** Tested by Hydraulic Pressure to **500 lbs.**
 Tubes:—Diameter **2" and 4"** Thickness **10&6 BWG (134")** Number **602-2" 44-4"** Steam Dome or Collector:—Description of joint to Shell **---** Thickness of shell plates **---** Range of tensile strength **---** 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 **two** Inside diameter **6" square**
 Thickness **3/8"** Material **Steel** Range of tensile strength **60,000 to 70,000 lbs.** Are drum shell plates welded or flanged **forged** If fusion welded, state name of welding firm **---** Have all the requirements of the rules or 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 **2-1/64"** Pitch of tube holes **3-3/4"** Percentage strength of drum shell in way of tubes **46%**
 Drum Heads or Ends: **welded to inlet and outlet nozzles** Range of tensile strength **---**
 Radius or how stayed **---** Size of manhole or handhole **4 1/2" x 5 1/2"** Number diameter & thickness **22 off 2" 134 wall 10 BWG**
 Tested by Hydraulic Pressure to **425 lbs.** Date of Test **18-8-43, 19-8-43** Is a safety valve fitted to each section of the superheater which can be shut off from the boiler **Yes**
 No. and description of Safety Valves **One** Area of each set of valves **1.76 sq. inches** Pressure to which they are adjusted **230 lbs.** Is easing gear fitted **No**

Spare Gear. Has the spare gear required by the rules been supplied **Yes**
NOTE:— 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. Manufacturer.

Dates of Survey } During progress of work in shops - **Aug. 11, 12, 13, 16, 17, 18, 19, 20 & 21** Is the approved plan of boiler forwarded herewith **No.**
 while } During erection on board vessel - **Sept. 17, 20, 22, 23, 27, 30 Oct. 1, 6, 20, 25, 27** Total No. of visits **31** Plans in U.K.
 building } **28 Nov. 1, 3, 4, 5, 6, 10, 12, 13, 15, 16, 17, 18, 20, 22, 23, 24, 25, 27, 29.**

Is this boiler a duplicate of a previous case **Yes** If so, state vessel's name and report No. **S.S. "FORT COLUMBIA" Vncr. Rpt. No 5942**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **These boilers have been built and fitted on board under Special Survey in accordance with the approved plans, New York letters and the Rules. The workmanship is good and the materials tested as per Rule. Satisfactorily tested under hydraulic pressure as above, examined under working conditions, safety valves adjusted to the I.P. and a satisfactory accumulation test carried out.**

Survey Fee **\$150.00** When applied for, **30th Nov. 43**
 Travelling Expenses (if any) **\$ 15.00** When received, **✓ 19**

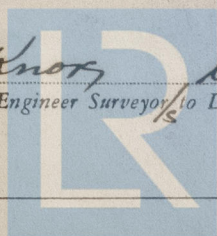
TUES. 22 FEB 1944

Committee's Minute

Assigned

See fl. machy rpt.

Engineer Surveyor to Lloyd's Register of Shipping.



© 2021

W. B. Baillie

Lloyd's Register Foundation

012966-012982-0298