

REPORT ON WATER TUBE BOILERS.

No. 6001

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19th Oct., 1943 When handed in at Local Office 19th Oct., 1943 Port of **Vancouver, B.C.**
 Survey held at **North Vancouver, B.C.** Date, First Survey **20th June, 1943** Last Survey **9th October, 1943**
 on the **Steel Single Screw Steamer S.S. "FORT PANMURE"** (Number of Visits **17**) Tons { Gross **7155.26**
 Net **4238.12**
 By whom built **North Van Ship Repairs Ltd.** When built **1943**
 By whom made **John Inglis Co. Ltd.** When made **1943**
 By whom made **Vancouver Iron Works Ltd.** When made **1943**
 Owner **Minister of Munitions & Supply of Canada.** Port belonging to **--**

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY—Manufacturers of Steel **Canada Steel Co. Ltd.—Page Hersey Tubes.**

Number and Description of Type **2. Sinuous Header Watertube** Working Pressure **250 lbs.** Tested by Hydraulic Pressure to **425 lbs.** Date of Test **7-7-43**
 of Approval of plan **17-7-43** Total Heating Surface of Boilers **9704 sq. ft.**
 of Certificate **517 & 514** Can each boiler be worked separately **Yes**
 draught fitted **Yes** Area of fire grate (coal) in each Boiler **--**
 and type of burners (oil) in each boiler **4. Todd "Hex-Press" Burners**
 One Twin 4" Consolidated Area of each set of valves per boiler { per rule **22.9 sq. in.** as fitted **25.14 sq. in.** No. and description of safety valves on **23.9 with 450 psi**
 Are they fitted with easing gear **Yes** In case of donkey boilers state whether steam from main boilers can enter **16' 5-5/8"**
 Height of boiler **23"** Inside diameter **47 3/8"**
 Steam Drums:—Number in each boiler **One** Range of Tensile Strength **70,000 to 82,000 lbs.** Are drum shell plates welded **--**
 Thickness of plates **15/16"** Have all the requirements of the rules **--**
 If fusion welded, state name of welding firm **Vancouver Iron Works Ltd.** Description of riveting:—Cir. seams **--** long. seams **--**
 Class I vessels been complied with **Yes** Pitch of rivets **--** Thickness of straps **--** Percentage strength of **--**
 Diameter of tube holes in drum **4-1/32"** Pitch of tube holes **7"**
 Steam Drum Heads or Ends:—Range of tensile strength **65,000 to 77,000 lbs.**
 Size of manhole or handhole **12" x 16"** Water Drums:—Number **--**
 Range of tensile strength **60,000-70,000 lbs.** Are drum shell plates **--**
 Have all the requirements of the rules **--**
 Description of riveting:—Cir. seams **--** long. seam **--**
 Pitch of rivets **--** Thickness of straps **--**
 Diameter of tube holes in drum **4-1/32"** Pitch of tube holes **7"**
 Water Drum Heads or Ends:—Range of Tensile strength **60,000 to 70,000 lbs.**
 Size of manhole or handhole **4 1/2" x 5 1/2"**
 Tested by Hydraulic Pressure to **500 lbs.**
 Number **602-2". 44-4"** Steam Dome or Collector:—Description of **--**
 Range of tensile **--**
 If fusion welded, state name of welding **--**
 Diameter of rivet holes **--**
 Plate **--** Rivet **--**
 Thickness of straps **--** Radius or how stayed **--**
 Range of tensile strength **--**
 Number in each boiler **Two** Inside Diameter **6" square**
 Drums or Headers:—Number in each boiler **Two** Range of tensile strength **60,000 to 70,000 lbs.** Are drum shell plates welded **--**
 Material **Steel** Have all the requirements of the rules **--**
 If fusion welded, state name of welding firm **--** long. seams **--**
 Description of riveting:—Cir. seams **--**
 Pitch of rivets **--** Thickness of straps **--** Percentage strength of **--**
 Diameter of tube holes in drum **2-1/64"** Pitch of tube holes **3-3/4"** Percentage strength of **--**
 Drum Heads or Ends: **Welded to inlet outlet nozzles.** Range of tensile strength **--**
 Size of manhole or handhole **4 1/2" x 5 1/2"** Number, diameter, and thickness of tubes **22 off 2" O.D. 10BWG .134 Wall**
 Is a safety valve fitted to each section of the superheater which **--**
 Area of each set **--**
 No. and description of Safety Valves **One** Is easing gear fitted **No**
 Pressure to which they are adjusted **230 lbs.**
 Area of each set **1.76 sq. in.**
 Spare Gear. Has the spare gear required by the rules been supplied **Yes**
 Headers, superheater headers and mud drums manufactured **Combustion Engineering Co. Inc. at Chattanooga, Tennessee,**
 under American Bureau of Inspection. The foregoing is a correct description, **VANCOUVER IRON WORKS LTD.**
 Manufacturer.

Dates of Survey { During progress of work in shops **1943. June 28, 29. July 2, 5, 7, 9.** Is the approved plan of boiler forwarded herewith **No**
 while { During erection on board vessel **Sept. 16, 23, 24, 25, 27, 28, 30. Oct. 6, 7, 8 & 9.** Plans in U.K. **--**
 building { Total No. of visits **17**

Is this boiler a duplicate of a previous case **Yes** If so, state vessel's name and report No. **"FORT COLUMBIA" Vanc. 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 W.P. and a satisfactory accumulation test carried out.

Survey Fee **\$ 150.00** When applied for, **Oct. 13, 1943**
 Travelling Expenses (if any) **\$ 15.00** When received, **19**

TUES 14 DEC 1943

Committee's Minute

Assigned

See for machinery etc

R. H. Jones & D. J. Anshel (Acting)
 Engineer Surveyors to Lloyd's Register of Shipping.

Lloyd's Register
 Foundation