

# REPORT ON WATER TUBE BOILERS.

No. 6014

Received at London Office

31 DEC 1943

pt. 5c.

of writing Report **30th Oct., 1943** When handed in at Local Office **30th Oct., 1943** Port of **Vancouver, B. C.**  
 to in Survey held at **Vancouver, B. C.** Date, First Survey **7th August, 1943** Last Survey **22nd Oct., 1943**  
 g. Bk. on the **Steel Single Screw Steamer "TECUMSEH PARK"** (Number of Visits **17**) { Gross **7163.33**  
 Tons { Net **4249.74**  
 at **Vancouver, B. C.** By whom built **West Coast Shipbuilders, Ltd.** When built **1943**  
 ines made at **Montreal, P.Q.** By whom made **Dominion Engineering Works.** When made **1943**  
 43 ers made at **Vancouver, B. C.** By whom made **Vancouver Iron Works, Ltd.** When made **1943**  
 ninal Horse Power **643** Owners **Minister of Munitions & Supply of Canada**  
**(Mrs. Park Steamship Co. Ltd.)** Port belonging to **--**

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

Boilers **2 Sinuous Header Watertube** Working Pressure **250 lbs.** Number and Description of Type **12-8-43 &**  
 of Certificate **Nos. 552 & 557** Tested by Hydraulic Pressure to **425 lbs.** Date of Test **17-8-43**  
 forced draught fitted **Yes** Can each boiler be worked separately **Yes** Total Heating Surface of Boilers **9704 sq. ft. (2 Blrs.)**  
 and type of burners (oil) in each boiler **4 Todd "Hex-Press" Burners**

boiler **One Twin 4" Consolidated** Area of each set of valves per boiler { per rule **22.9 sq. ins.** ex **23.88** with **24"**  
 adjusted **250 lbs.** Are they fitted with easing gear **Yes** as fitted **25.14 sq. ins.** Pressure to which they **1.76**  
 4.8 donkey boiler **--** In case of donkey boilers state whether steam from main boilers can enter  
 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"**  
 kness of plates **15/16"** Range of Tensile Strength **70,000 to 82,000 lbs.** Are drum shell plates welded  
 angled **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 **--**  
 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 **4-1/32"** Pitch of tube holes **7"**

entage strength of shell in way of tubes **42.5** Steam Drum Heads or Ends:—Range of tensile strength **65,000 to 77,000 lbs.**  
 kness of plates **15/16"** Radius or how stayed **38"** Size of manhole or handhole **12" x 16"** Water Drums:—Number

CHACH boiler **One** Inside Diameter **5 1/2" sq.** Thickness of plates **3/4"** Range of tensile strength **60,000-70,000** Are drum shell plates  
 ed or flanged **Solid drawn** If fusion welded, state name of welding firm **--** lbs. **134** Have all the requirements of the rules  
 Class 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 **--**  
 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"**  
 ders or Sections:—Number **22** Material **Steel** Thickness **9/16"** Tested by Hydraulic Pressure to **500 lbs.**  
 es:—Diameter **2" & 4"** Thickness **10/16 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  
 gth. **--** 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 **--**  
 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**

kness **5/8"** Material **Steel** Range of tensile strength **60,000 to 70,000 lbs.** Are drum shell plates welded  
 angled **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 **--**

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 **2-1/64"** Pitch of tube holes **3-3/4"** Percentage strength of  
 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**  
 d by Hydraulic Pressure to **425 lbs.** Date of Test **12-8-43 & 17-8-43** 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

alves **1.76 sq. ins.** 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**  
 e: **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.

During progress of **1943. Aug. 7, 9, 10, 11, 12, 16, 17, 19.**  
 work in shops - -  
 During erection on **1943. Sept. 20, 27.**  
 board vessel - - **Oct. 4, 8, 13, 14, 15, 19, 22.**

Is the approved plan of boiler forwarded herewith **No**  
 (Plans in U.K.)  
 Total No. of visits **17**

Is 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, 27th Oct. 1943**

Survey Fee **\$150.00** When applied for, **27th Oct. 1943**  
 Travelling Expenses (if any) **\$15.00** When received, **19**

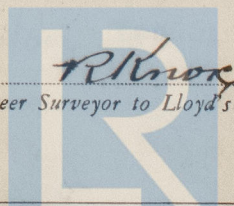
Committee's Minute

igned

FRI. 7 JAN 1944

see minute  
on F.E. Rpt.

Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation

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