

REPORT ON WATER TUBE BOILERS.

No. 6069

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Writing Report Dec. 28th 1943 When handed in at Local Office Dec. 28th 1943 Port of Vancouver, B.C.
 in Survey held at Vancouver, B.C. Date, First Survey Oct. 4th, 1943 Last Survey Dec. 22nd 1943
 on the Steel Single Screw Steam Tanker "SILVER STAR PARK" (Number of Visits 17) { Gross 6750.01
 Tons { Net 4184.37
 at Vancouver, B.C. By whom built West Coast Shipbuilders Ltd. When built 1943
 es made at Montreal, P.Q. By whom made Canadian Allis-Chalmers Limited When made 1943
 s made at Vancouver, B.C. By whom made Vancouver Iron Works Ltd. When made 1943
 al Horse Power 643 Owners Minister of Munitions & Supply of Canada. (Mgrs. Park Steamship Co. Ltd.) Port belonging to Montreal

WATER 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 - Sinuous Header Watertube Working Pressure 250 lbs. Tested by Hydraulic Pressure to 425 lbs Date of Test 16-10-43 ✓
 of Certificate 591 & 592 Can each boiler be worked separately. Yes ✓ Total Heating Surface of Boilers 9704 Sq. Ft. 19-10-43 ✓
 ced draught fitted Yes ✓ Area of fire grate (coal) in each Boiler -- (2 Blrs.)
 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 450° F
 as fitted 25.14 sq. in. + 1.76 spt 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 3/8" ✓

h and Length 14'-7 3/4" x 18'-7 1/2" Steam Drums:—Number in each boiler One ✓ Inside diameter 47 3/8" ✓
 ness of plates 15/16" ✓ Range of Tensile Strength 70000 to 82000 lbs. ✓ Are drum shell plates welded
 nged 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 ✓ (Certs received) 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" ✓

ntage strength of shell in way of tubes 42.5% ✓ Steam Drum Heads or Ends:—Range of tensile strength 65000 to 77000 lbs. ✓
 ness of plates 15/16" ✓ Radius or how stayed 38" ✓ Size of manhole or handhole 12" x 16" ✓ Water Drums:—Number
 eb boiler One ✓ Inside Diameter 5 3/4" sq. ✓ Thickness of plates 3/4" Range of tensile strength 60000-70000 lbs. ✓ Are drum shell plates

ed 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 --
 eter of rivet holes in long. seams -- Pitch of rivets -- Thickness of straps --

ntage strength of long. joint:—Plate -- Rivet -- Diameter of tube holes in drum 4-1/32" ✓ Pitch of tube holes 7" ✓
 ntage strength of drum shell in way of tubes 42.5 ✓ Water Drum Heads or Ends:—Range of Tensile strength 60000 to 70000 lbs. ✓

ness 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 & 6 BWG (: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 --
 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 --
 WPERHEATER. Drums or Headers:—Number in each boiler Two ✓ Inside Diameter 6" square ✓

ckness 5/8" ✓ Material Steel ✓ Range of tensile strength 60000 to 70000 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 --
 eter of rivet holes in long. seams -- Pitch of rivets -- Thickness of straps -- Percentage strength of
 g. joint:—Plate -- Rivet -- Diameter of tube holes in drum 2-1/64" ✓ Pitch of tube holes 3 3/4" ✓ Percentage strength of

m shell in way of tubes 46% ✓ Drum Heads or Ends: Welded to inlet & outlet nozzles ✓ Range of tensile strength --
 lius or how stayed -- Size of manhole or handhole 4 1/2" x 5 1/2" ✓ Number, diameter, and thickness of tubes 22 off 2".134 Wall ✓
 ted by Hydraulic Pressure to 425 lbs. ✓ Date of Test 16-10-43, 19-10-43 ✓ 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 ✓
 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. Manufacturer.

Dates } During progress of 1943 Oct. 4, 5, 6, 7, 12, 15, 16, 19 Is the approved plan of boiler forwarded herewith No.
 Survey } work in shops - - -
 while } During erection on 1943. Nov. 18, 30. Dec. 4, 6, 10, 11, 14, 21, 22 Total No. of visits 17 Plans in U.K.
 rlding } board vessel - - -

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

Survey Fee \$ 150.00 : } When applied for, Dec. 28th 1943 RB
 Travelling Expenses (if any) \$ 15.00 : } When received, ✓ 19

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 Engineer Surveyor to Lloyd's Register of Shipping.
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Committee's Minute
 signed Sa F. E. Moly Rpt.

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