

REPORT ON WATER TUBE BOILERS.

No. 6161

Received at London Office

of writing Report 3rd Apr., 1944 When handed in at Local Office 3rd Apr., 1944 Port of Vancouver, B. C.
 to in Survey held at Vancouver, B. C. Date, First Survey 7th Jan., 1944 Last Survey 31st March, 1944
 g. Bk. on the Steel Single Screw Steamer "QUETICO PARK" (Number of Visits 16) Tons { Gross 6746.20
 Net 4166.98
 at Vancouver, B. C. By whom built West Coast Shipbuilders, Ltd. When built 1944
 lines made at Montreal By whom made Dominion Engineering Works, Ltd. When made 1944
 ers made at Vancouver, B. C. By whom made Vancouver Iron Works, Ltd. When made 1944
 ninal Horse Power 628 Owners Minister of Munitions & Supply of Canada. (Mtrs. 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 13-1-44 & 26-1-44
 of Certificate Nos. 651 & 654 Can each boiler be worked separately Yes Total Heating Surface of Boilers 9704 sq. ft. (2 Birs.)
 orced 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. as fitted 25.14 " " Pressure to which they are 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 3/4" 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 flanged 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"
 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.

ckness of plates 15/16" Radius or how stayed 38" Size of manhole or handhole 12" x 16" Water Drums:—Number each boiler One Inside Diameter 5 3/4" sq. Thickness of plates 3/4" Range of tensile strength 60,000 - 70,000 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 Class I vessels been complied with Yes Description of riveting:—Cir. seams -- long. seam --

meter 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.

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"
 aders or Sections:—Number 22 Material Steel Thickness 9/16" Tested by Hydraulic Pressure to 500 lbs.
 y bes:—Diameter 2" & 4" Thickness 10&6 BWG (.134" .203") Number 602-2". 44-4" Steam Dome or Collector:—Description of

ut to Shell -- Inside diameter -- Thickness of shell plates -- Range of tensile strength --
 Description of longitudinal joint -- 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 --

h 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 --

UPERHEATER. 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 flanged 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 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 and outlet nozzles. Range of tensile strength --

lius or how stayed -- Size of manhole or handholes 4 1/2" x 5 1/2" Number, diameter, and thickness of tubes 22 off 2" OD 10BWG .134 wall.
 ted by Hydraulic Pressure to 425 lbs. Date of Test 13-1-44 & 26-1-44 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 Mobile Surveyors inspection and certificate.
 The foregoing is a correct description.
M. D. Fraser Manufacturer.

Dates } During progress of work in shops Jan. 7, 10, 13, 15, 17, 19, 26, 27. Is the approved plan of boiler forwarded herewith No
 Survey while } During erection on board vessel Feb. 12, 28. March 15, 18, 20, 21, 30, 31. Plans in U.K.
 alding } Total No. of visits 16

this boiler a duplicate of a previous case Yes If so, state vessel's name and report No. "FORT COLUMBIA" (Ver. Report No. 5942)

ENERAL 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, 3rd Apr. 1944
 Travelling Expenses (if any) £15.00 When received, 19

ommittee's Minute
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See p. machy 2/4
 JUN 13 1944
 Engineer Surveyor to Lloyd's Register of Shipping.
 Lloyd's Register Foundation
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