

REPORT ON WATER TUBE BOILERS.

No. 6097

Received at London Office 22 MAR 1944

of writing Report 7th Feb., 44 When handed in at Local Office 7th Feb., 1944 Port of Vancouver, B. C.
 No. in Survey held at Vancouver, B. C. Date, First Survey 1st Nov., 1943 Last Survey 31st Jan., 1944
 g. Bk. on the Steel Single Screw Steamer "MOOSE MOUNTAIN PARK" (Number of Visits 16) Tons {Gross 6746.62
 29 at Vancouver, B. C. By whom built West Coast Shipbuilders, Ltd. When built 1944
 lines made at Toronto, Ont. By whom made John Inglis Co. Ltd. When made 1944
 lers made at Vancouver, B. C. By whom made Vancouver Iron Works, Ltd. When made 1944
 iminal 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 9-11-43 & 10-11-43.
 of Certificate Nos. 610 & 611 Can each boiler be worked separately Yes Total Heating Surface of Boilers 9704 sq. ft. (2 Birs.)
 forced 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. ex Spt 23.9. with Spt at 450°
 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"
 lth and Length 14'-7 1/2" 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
 langed 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
 ach boiler One Inside Diameter 5 1/2" sq. Thickness of plates 3/4" Range of tensile strength 60,000-70,000 lbs. Are drum shell plates
 led or flanged Solid drawn If fusion welded, state name of welding firm City received -- Have all the requirements of the rules
 Class I vessels been complied with -- 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"
 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 (.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 --
 eac PERHEATER. 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
 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
 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 9-11-43 and 10-11-43 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
 lves 1.76 sq. inches 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
 l. 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.

tes } During progress of 1943. Nov. 1, 4, 5, 6, 8, 9, 10, 12, 13. Is the approved plan of boiler forwarded herewith No
 rvey } work in shops -- 1943. Dec. 31. Plans in U.K.
 ile } During erection on 1944. Jan. 10, 21, 22, 25, 29, 31. Total No. of visits 16
 ding } board vessel --

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built and fitted on
 d 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
 sure as above, examined under working conditions, safety valves adjusted to the W.P. and a
 sfactory accumulation test carried out. 2nd Feb., 1944
 rvey Fee \$150.00 When applied for, 2nd Feb., 1944
 ravelling Expenses (if any) \$15.00 When received, 19

mittee's Minute

igned

FRI. 14 APR 1944

see minute on J.E. Rpt.

Engineer Surveyor to Lloyd's Register of Shipping.

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