

## REPORT ON WATER TUBE BOILERS.

No. 6217

Received at London Office 26 JUL 1944

te of writing Report 31st May, 1944. When handed in at Local Office 31st May, 1944 Port of Vancouver, B. C.

No. in Survey held at North Vancouver, B. C. Date, First Survey 9th February, 1944 Last Survey 29th May, 1944

eg. Bk. on the Steel Single Screw Steamer "DORVAL PARK" (Number of Visits 15) Gross 7162.70 Tons Net 4220.89

ilt at North Vancouver, B. C. By whom built North Van Ship Repairs Ltd. When built 1944

ines made at Toronto, Ontario 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 (Mgers. Park Steamship Co. Ltd.) Port belonging to Montreal, P.Q.

ATER TUBE BOILERS—MAIN, ~~SUPERHEATER, STEAM DRUMS~~—Manufacturers of Steel Steel Co. of Canada, Page-Hersey Tubes & Combustion Eng. Co., Chattanooga. Number and Description of Type 16-2-44

Boilers 2 Sinuous Header Watertube Working Pressure 250 lbs. (Spt. 230 lb.) Tested by Hydraulic Pressure to 425 lbs. Date of Test 17-2-44

of Certificate 671 - 672 Can each boiler be worked separately Yes Total Heating Surface of Boilers 9704 sq. ft. (2 Hrs.)

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

boiler One Twin 4" spring loaded No. and description of safety valves on boiler per rule 22.9 sq. in. as fitted 25.14 " " + 1.76 sq. in. at 250 lbs. pressure

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 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

anged 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"

ntage strength of shell in way of tubes 42.5% Steam Drum Heads or Ends:—Range of tensile strength 65,000 to 70,000 lbs.

ness of plates 15/16" Radius or how stayed 38" Size of manhole or handhole 12" x 16" Water Drums:—Number

h 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

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 60,000 to 70,000 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"

ers or Sections:—Number 22 Material Steel Thickness 9/16" Tested by Hydraulic Pressure to 500 lbs.

st:—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

th - - Description of longitudinal joint - - If fusion welded, state name of welding

of rivets - - Have all the requirements of the rules for Class I vessels been complied with - - Diameter of rivet holes - -

er or End Plates:—Range of tensile strength - - Thickness - - Plate - - Rivet - -

ERHEATER. Drums or Headers:—Number in each boiler Two Inside Diameter 6" square

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

ged Forged If fusion welded, state name of welding firm - - Have all the requirements of the rules

ass I vessels been complied with - - Description of riveting:—Cir. seams - - long seams - -

ter 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

bell in way of tubes 46% Drum Heads or Ends: Welded to inlet and outlet nozzles. Range of tensile strength - -

or how stayed - - Size of manhole or handhole 4 1/2" x 5 1/2" Number, diameter, and thickness of tubes 2 off 2" OD 10BWG

by Hydraulic Pressure to 425 lbs. Date of Test 16 - 2 - 44 17 - 2 - 44 Is a safety valve fitted to each section of the superheater which

shut off from the boiler Yes No. and description of Safety Valves One .134 wall.

es. 1.76 sq. inches Pressure to which they are adjusted 230 lbs. Is easing gear fitted No

2 Gear. Has the spare gear required by the rules been supplied Yes

Headers, Superheater headers and mid drums manufactured by Combustion Engineering Co. Inc. at Chattanooga, Tennessee, under Mobile Surveyors inspection and certificate.

The foregoing is a correct description, VANCOUVER IRON WORKS LTD. Manufacturer.

ey } During progress of } 1944 Feb. 9, 10, 11, 14, 15, 16, 17 & 18 Is the approved plan of boiler forwarded herewith No

g } During erection on } 1944 May 15, 18, 19, 20, 22, 25 & 29 Plans in U. K.

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built and fitted on

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

factory accumulation test carried out.

ey Fee \$150.00 When applied for, 29th May 1944

selling Expenses (if any) \$15.00 When received, 19

nttee's Minute TUES. 1 AUG 1944

red see minute on J.B. Rpt.

Engineer Surveyors to Lloyd's Register of Shipping.

Lloyd's Register Foundation

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