

REPORT ON WATER TUBE BOILERS.

No. 6125

16 MAY 1944

Received at London Office.

Writing Report 13th March 1944 When handed in at Local Office 13th March 1944 Port of Vancouver, B. C.
 in Survey held at Prince Rupert, B. C. Date, First Survey, 9th July, 1943 Last Survey 6th March, 1944
 on the Steel Single Screw Steamer "FORT PERROT" (Number of Visits 68) Gross 7170.64 Tons Net 4237.06
 Prince Rupert, B. C. By whom built Prince Rupert Dry Dock & Shipyard When built 1944
 made at Montreal, P. Q. By whom made Canadian Allis-Chalmers, Ltd. When made 1944
 made at Vancouver, B. C. By whom made Vancouver Iron Works, Ltd. When made 1944
 al Horse Power 628 Owners Minister of Munitions & Supply of Canada Port belonging to - -

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY—Manufacturers of Steel Steel Co. of Canada, Page-Hersey Tubes & Combustion Eng. Co., Chattanooga

Approval of plan 17-7-43 (SPT. 230 lb.) Number and Description of Type

Boilers 2 Sinuous Header Watertube Working Pressure 250 lbs. Tested by Hydraulic Pressure to 425 lbs. Date of Test 19-7-43 & 16-7-43

Certificates 527 & 524 Can each boiler be worked separately Yes Total Heating Surface of Boilers 9704 sq. ft. (2 Blrs)

ed draught fitted Yes Area of fire grate (coal) in each Boiler - -

ed 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

ust 250 lbs. Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter

key boiler - - Smallest distance between boilers or uptakes and bunkers or woodwork 23" Height of boiler 16'-5-5/8

and Length 14'-7 1/2" x 18'-7 1/2" Steam Drums:—Number in each boiler One Inside diameter 47 3/8

ss of plates 15/16" Range of Tensile Strength 70,000 to 82,000 lbs. Are drum shell plates welded

ged Welded If fusion welded, state name of welding firm Vancouver Iron Works, Ltd. Have all the requirements of the rules

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

er of rivet holes in long. seams - - Pitch of rivets - - Thickness of straps - - Percentage strength of

int:—Plate - - Rivet - - Diameter of tube holes in drum 4-1/32" Pitch of tube holes 7"

age strength of shell in way of tubes 42.5% Steam Drum Heads or Ends:—Range of tensile strength 65,000 to 77,000 lbs.

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

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

or flanged Solid drawn If fusion welded, state name of welding firm - - lbs. Have all the requirements of the rules

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

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

age strength of long. joint:—Plate - - Rivet - - Diameter of tube holes in drum 4-1/32" Pitch of tube holes 7"

age 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.

ss of plates 9/16" min. Radius or how stayed Handholes in end Size of manhole or handhole 4 1/2" x 5 1/2"

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

—Diameter 2" & 4" Thickness 10 & 6 BWG (.134" & .203" Number 602-2". 44-4". Steam Dome or Collector:—Description of

Shell - - Inside diameter - - Thickness of shell plates - - Range of tensile

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

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

rivets - - Thickness of straps - - Percentage strength of long. joint - - Plate - - Rivet - -

or End Plates:—Range of tensile strength - - Thickness - - Radius or how stayed - -

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

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

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

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

er of rivet holes in long. seams - - Pitch of rivets - - Thickness of straps - - Percentage strength of

int:—Plate - - Rivet - - Diameter of tube holes in drum 2-1/64" Pitch of tube holes 3-3/4" Percentage strength of

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

er 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

y Hydraulic Pressure to 425 lbs. Date of Test 19-7-43 & 16-7-43 Is a safety valve fitted to each section of the superheater which

but off from the boiler Yes No. and description of Safety Valves One Area of each set

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

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

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 work in shops 1943. July 9, 12, 13, 14, 15, 16, 19, 20, 21. Is the approved plan of boiler forwarded herewith No

During erection on board vessel - - 1943. Dec. 7, 13, 30, 31 Jan. 1, 3, 4, 5 Total No. of visits 68 Plans in U.K.

6, 7, 8, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 24, 25, 26, 27, 28, 29, 30, 31 Feb. 1, 2, 3, 4, 5,

7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27 March 2, 6

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

are 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 28th Feb. 1944

elling Expenses (if any) £25.00 When received, 19

Committee's Minute

See fe. machy rft

THURS 25 MAY 1944

Engineer Surveyor to Lloyd's Register of Shipping

Lloyd's Register Foundation

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