

Rpt. 5a.
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REPORT ON BOILERS.

knab. Rpt.
No. 6156

21 JUL 1944

Received at London Office

Date of writing Report April 5, 1944 When handed in at Local Office March 22, 1944 Port of Montreal, Que.

No. in Reg. Book. Survey held at Montreal, Que. Date, First Survey Feb. 1, 1944 Last Survey March 8, 1944

(Number of Visits 12) Tons { Gross
Net

on the S/S "CONFEDERATION PARK"

Built at Pictou, N.S. By whom built Foundation Maritime Limited Yard No. 13 When built 1944

Engines made at By whom made Engine No. When made

Boilers made at LACHINE, QUE. By whom made DOMINION BRIDGE COMPANY LIMITED Boiler No. B1340 S. 2 When made 1944

Nominal Horse Power. Owners. Port belonging to

MULTITUBULAR BOILERS—MAIN, ~~XXXXXXXXXXXXXXX~~

Manufacturers of Steel Bethlehem, Steel Co. of Canada, Lukens, etc. (Letter for Record S)

Total Heating Surface of Boilers 1927 sq.ft. Is forced draught fitted Yes Coal or Oil fired Coal

No. and Description of Boilers 1 Single Ended Multitubular Working Pressure 200 lbs./sq.in.

Tested by hydraulic pressure to 350 lbs./sq.in. Date of test 8.3.44 No. of Certificate 1937 Can each boiler be worked separately Yes

Area of Firegrate in each Boiler 43.25 sq.ft. and Description of safety valves to each boiler One Twin Cockburn Improved High Lift 2 1/2" dia. each

Area of each set of valves per boiler { per Rule 6.72 sq.in. 5.6 for 1 H.C. on 5 ft. as fitted 7.95 sq.in. Pressure to which they are adjusted Are they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated

Largest internal dia. of boilers 13' - 6" Length 11' - 6" Shell plates: Material O.H. Steel Tensile strength 29-33 tons

Thickness 1 9/32" Are the shell plates welded or flanged Welded Description of riveting: circ. seams { end
inter Welded

long. seams Welded Diameter of rivet holes in { circ. seams
long. seams Pitch of rivets {

Percentage of strength of circ. end seams { plate
rivets Percentage of strength of circ. intermediate seam { plate
rivets

Percentage of strength of longitudinal joint { plate
rivets
combined Working pressure of shell by Rules 204.3 lbs./sq.in.

Thickness of butt straps { outer None
inner None No. and Description of Furnaces in each Boiler 3 Morrison Corrugated

Material O.H. Steel Tensile strength 26-30 tons Smallest outside diameter 38 1/2" 3'-5 1/8"

Length of plain part { top
bottom Thickness of plates { crown 9/16"
bottom Description of longitudinal joint Lap Weld

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 212 lbs./sq.in.

End plates in steam space: Material O.H. Steel Tensile strength 26-30 tons Thickness 1 3/16" Pitch of stays 18 1/2" x 17 1/2"

How are stays secured Inside and Outside Nuts Working pressure by Rules 202.4 lbs./sq.in.

Tube plates: Material { front O.H. Steel
back O.H. Steel Tensile strength { 26-30 tons
26-30 tons Thickness { 29/32"
13/16"

Mean pitch of stay tubes in nests 8 3/8" x 10 5/16" Pitch across wide water spaces 14" Working Pressure { front 245 lbs./sq.in.
back 223 lbs./sq.in.

Girders to combustion chamber tops: Material O.H. Steel Tensile strength 28-32 tons Depth and thickness of girder

at centre 2 @ 7 1/4" x 7/8" Length as per Rule 33 15/32" Distance apart 8" No. and pitch of stays

in each 2 @ 10 3/8" x 8" Working pressure by Rules 206.2 lbs./sq.in. Combustion chamber plates: Material O.H. Steel

Tensile strength 26-30 tons Thickness: Sides 23/32" Back 23/32" Top 23/32" Bottom 23/32"

Pitch of stays to ditto: Sides 11" x 7 1/4" Back 8 3/8" x 10 1/2" Top 10 3/8" x 8" Are stays fitted with nuts or riveted over Welded Washers & Welded Over

Working pressure by Rules 202 lbs./sq.in. Front plate at bottom: Material O.H. Steel Tensile strength 26-30 tons

Thickness 29/32" Lower back plate: Material O.H. Steel Tensile strength 26-30 tons Thickness 29/32"

Pitch of stays at wide water space 14 3/8" x 10 1/2" Are stays fitted with nuts or riveted over Welded Washers & Welded over

Working pressure 214 lbs./sq.in. Main stays: Material O.H. Steel Tensile strength 28-32 tons

Diameter { At body of stay 3"
or
Over threads No. of threads per inch 6 Area supported by each stay 18 1/2" x 17 1/2" = 324 sq.in.

Working pressure by Rules 207 lbs./sq.in. Screw stays: Material O.H. Steel Tensile strength 26-30 tons

Diameter { At turned off part,
or
Over threads 2", 1 3/4" No. of threads per inch 9 Area supported by each stay 8 3/8" x 10 1/2" = 87.5/sq.in.



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Working pressure by Rules **207 lbs./sq. in.** the stays drilled at the outer ends **No** Margin stays: Diameter { At turned off part, **2"** or Over threads. **-**

No. of threads per inch **9** Area supported by each stay **11 3/8" x 10 1/2" = 119.5 sq. in.** Working pressure by Rules **207 lbs./sq. in.**

Tubes: Material **Steel** External diameter { Plain **3** Thickness **5/16" & 1/4"** No. of threads per inch **9**
Stay **3**

Pitch of tubes **4 1/8" x 4 3/16"** Working pressure by Rules **250 lbs./sq. in.** Manhole compensation: Size of opening in shell plate **-** Section of compensating ring **-** No. of rivets and diameter of rivet holes **-**

Outer row rivet pitch at ends **-** Depth of flange if manhole flanged **-** Steam Dome: Material **-**

Tensile strength **-** Thickness of shell **-** Description of longitudinal joint **-**

Diameter of rivet holes **-** Pitch of rivets **-** Percentage of strength of joint { Plate **-**
Rivets **-**

Internal diameter **-** Working pressure by Rules **-** Thickness of crown **-** No. and diameter of stays **-** Inner radius of crown **-** Working pressure by Rules **-**

How connected to shell **-** Size of doubling plate under dome **-** Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell **-**

Type of Superheater **Smoke Tube** Manufacturers of { Tubes **National Tube Co.**
Steel forgings **-**
Steel castings **-**

Number of elements **48** Material of tubes **O.H. Seamless** Internal diameter and thickness of tubes **.69 & .095**

Material of headers **O.H. Seamless Tube** Tensile strength **-** Thickness **1 1/8"** Can the superheater be shut off and the boiler be worked separately **-** Is a safety valve fitted to every part of the superheater which can be shut off from the boiler **-**

Area of each safety valve **-** Are the safety valves fitted with easing gear **-** Working pressure as per Rules **-** Pressure to which the safety valves are adjusted **-** Hydraulic test pressure: tubes **-** forgings and castings **-** and after assembly in place **-** Are drain cocks or valves fitted to free the superheater from water where necessary **-**

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with **-**

*For particulars see H.P. letter
28.8.44 on 'Beresford Park'*

The foregoing is a correct description,
DOMINION BRIDGE CO. LIMITED Manufacturer,
per H. Hall

Dates of Survey { During progress of work in shops - - } **Feb. 1, 4, 7, 10, 16, 22, 24, 29**
while building { During erection on board vessel - - } **March 1, 3, 7, 8, 1944**

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) **-**

Total No. of visits **-**

Is this Boiler a duplicate of a previous case **Yes** If so, state Vessel's name and Report No. **S/S "ROCKWOOD PARK" Montreal Rpt. 5**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **This BOILER has been constructed under Special Survey and in accordance with Approved Plans.**

The shell longitudinal and circumferential seams are welded by the Union Melt Process and have been tested and X-rayed in accordance with the Rules for Class 1 Pressure Vessels.

The longitudinal seams of the front and back end plates are welded by the Union Melt Process.

The BOILER was tested hydrostatically at 350 lbs. per square inch pressure and found tight.

Survey Fee **100.00** : : } When applied for **26th May 44**

Travelling Expenses (if any) : : } When received **19**

Weyl P. R. L.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **1 AUG 1944**

Assigned **see minute on 28.8.44**



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