

REPORT ON BOILERS.

Received at London Office

31 JUL 1945

m.d. Rpt.
No. 6532

Date of writing Report 9th April 1945 When handed in at Local Office March, 24th 1945 Port of MONTREAL, Que.

No. in Reg. Book. Survey held at MONTREAL Date, First Survey 22nd January Last Survey 8th March 19 45.

on the S.S. "Lorne Park" (Number of Visits 15) Tons { Gross 2930
Net 1622

Built at Pictou, Nova Scotia By whom built Foundation Maritimes Ltd. Yard No. 24 When built 1945

Engines made at Three Rivers, Que. By whom made CANADA IRON FOUNDRIES LTD. Engine No. 2041 When made 1945

Boilers made at LACHINE, P.Q. By whom made DOMINION BRIDGE COMPANY LIMITED Boiler No. B 1509 S 4 When made 1945.

Nominal Horse Power 269 Owners CANADIAN GOVERNMENT Port belonging to MONTREAL

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY~~, OR ~~DONKEY~~.

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

Total Heating Surface of Boilers 1927 sq. ft. each boiler 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 8th March 1945 No. of Certificate 6781 Can each boiler be worked separately Yes.

Area of Firegrate in each Boiler 43.25 sq. ft. No. 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. Pressure to which they are adjusted 200 lbs. Are they fitted with easing gear Yes
as fitted 7.95 sq. in.

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 2' 3" Is oil fuel carried in the double bottom under boilers NO

Smallest distance between shell of boiler and tank top plating 2' 0" Is the bottom of the boiler insulated YES

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 welded
inter welded

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

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

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

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

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

Length of plain part { top - Thickness of plates { crown 9/16" Description of longitudinal joint LAP weld
bottom - bottom -

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 1/4"x17 3/4"

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

Tube plates: Material { front O.H. Steel Tensile strength { 26-30 tons Thickness { 29/32"
back O.H. Steel 26-30 tons 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 3/4"x7/8" Length as per Rule 33 15/32" Distance apart 8" No. and pitch of stays

in each 2@ 10 3/4"x8" 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"x7 3/4" Back 8 3/8"x10 1/2" Top 10 3/8"x8" Are stays fitted with nuts or riveted over welded washers and 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"x10 1/2" Are stays fitted with nuts or riveted over welded washers and 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" No. of threads per inch 6 Area supported by each stay 18 1/4"x17 3/4"-324 sq. ins.
or -
Over threads -

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

Diameter { At turned off part - No. of threads per inch 9" Area supported by each stay 8 3/8"x10 1/2"-87.5/sq. in.
or -
Over threads 2", 1 3/4"

The foregoing is a correct description,
DOMINION BRIDGE CO. LIMITED *Manufacturers.*

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. 5740

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.

The safety valves were adjusted under steam as stated above and the boiler examined under full working conditions with satisfactory results. The vessel is eligible to have the notation + L.M.C. 7.45 insofar as the boiler is concerned.

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Jas. H. Nain & Wm. Redter
Engineer-Surveyors to Lloyd's Register of Shipping.

Committee's Minute.....

Assigned..... Su F.E. machy. rpt.

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Foundation