

REPORT ON BOILERS.

No. 6156

Received at London Office.

Date of writing Report April 4, 19 44 When handed in at Local Office March 22, 19 44 Port of Montreal, Que.

No. in Reg. Book. Survey held at Montreal, Que. Date, First Survey Jan. 12, 1944 Last Survey Feb. 24, 19 44

(Number of Visits 11) 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. B.1340 When made 1944
P. 2

Nominal Horse Power. Owners Port belonging to

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. 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 24.2.44 No. of Certificate 1936 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. Pressure to which they are adjusted 5-6 for 144 lb. per sq.in. 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 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 Welded
inter -

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 None

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 16"

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

in each 2 @ 10 5/8" 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" Welded washers & Welded over

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 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"

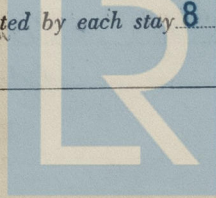
Pitch of stays at wide water space 14 3/8" x 10 1/2" Are stays fitted with nuts or riveted over Welded washers & Welded over

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

Diameter { At body of stay 3" No. of threads per inch 6 Area supported by each stay 18 1/2" x 17 3/4" = 324 sq.in.
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, 2" No. of threads per inch 9 Area supported by each stay 8 3/8" x 10 1/2" = 87.5/sq.in.
or
Over threads 1 1/2"

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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 Working pressure by Rules. 207 lbs./sq. in.

Tubes: Material Steel External diameter { Plain 3 Thickness { sq. in. 8 LSG No. of threads per inch 9
Stay 3 5/16" & 1/4"

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 particular See Hpc letter 28.8.44
on Beresford Park.*

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

Dates of Survey while building { During progress of work in shops Jan. 12, 18, 24, 26
During erection on board vessel 4, 7, 10, 16, 22, 24 Feb. 1, 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.

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) 18.50 : } When received 19

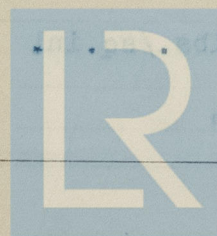
Weyl Rutter
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUES. 1 AUG 1944

Assigned

*see minute
on 26.8.44*



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