

REPORT ON BOILERS.

No. 6004

Received at London Office

Date of writing Report 16th. Aug. 43 When handed in at London Office 19 Port of Montreal, P.Q.

No. in Survey held at Montreal, P.Q. Date, First Survey 16th. June Last Survey Jan. 24 19 44

Reg. Book. Montreal (Number of Visits 14) St. John 16 Tons } Gross 2882
Net --

on the S/S ~~XXXXXXXXXX~~ "FAWKNER PARK"

Built at St. John, N.B. By whom built St. John Dry Dock & Shipbuilding Company Yard No. 16 When built 1943

Engines made at Three Rivers P.Q. By whom made Canada Iron Foundries Ltd Engine No. 2011 When made 1943

Boilers made at Lachine, P.Q. By whom made Dominion Bridge Company Limited Boiler No. B1147 S3 When made 1943

Nominal Horse Power 269 Owners Canadian Government Port belonging to M

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

Manufacturers of Steel Bethlehem Steel, Steel Co. of Canada, Trenton Steel Co., & Steel Dominion Foundries (Letter for Record S ✓)

Total Heating Surface of Boilers 1927 Square Feet 3850 (2 bln) Is forced draught fitted Yes ✓ Coal or Oil fired Coal ✓

No. and Description of Boilers 1 Single Ended Multitubular Working Pressure 200Lbs/Sq. In.

Tested by hydraulic pressure to 350Lbs/Sq. In. Date of test 17.7.43 No. of Certificate 7446 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 1/4" Ea.

Area of each set of valves per boiler { per Rule 6.72 Sq. In. for 1 H.L. with sp.
as fitted 7.952 Sq. In. Pressure to which they are adjusted 200Lbs/Sq. In. 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 2 ft. Is oil fuel carried in the double bottom under boilers No

Smallest distance between shell of boiler and tank top plating 2 ft. Is the bottom of the boiler insulated Yes

Largest internal diameter 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 No Description of riveting: circ. seams { end Welded
inter. (Union Melt)

Long. seams Welded (Union Melt) 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 --

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

Material O.H. Steel Tensile strength 26-30 Tons/Sq. In. ✓ Smallest outside diameter 38 1/2"

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

Dimensions of stiffening rings on furnace or c.c. bottom --

End plates in steam space: Material O.H. Steel Tensile strength 26-30 Tons Thickness 1 3/16" Pitch of stays 17 3/4" x 18 1/4"

How are stays secured Inside & Outside Nuts ✓

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

Mean pitch of stay tubes in nests 10 3/8" ✓ Pitch across wide water spaces 14" x 8 1/4" ✓

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

at centre 7-3/4" x 7/8" double Length as per Rule 2'-9 15/32" Distance apart 8" Centre to Centre ✓ No. and pitch of stays

at each 2 at 10 3/4" ✓ 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 3/4" Back 8 3/8" x 10 1/2" Top 10 1/2" x 8" ✓ Are stays fitted with nuts or riveted over Welded Washers and Welded Over

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 ✓

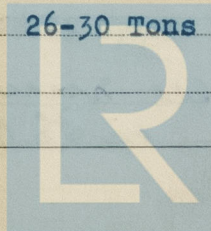
Main stays: Material O.H. Steel ✓ Tensile strength 28-32 Tons ✓

At body of stay -- No. of threads per inch 6 ✓

Over threads 3 1/4" and 2 1/4" ✓

At turned off part -- Tensile strength 26-30 Tons ✓

Over threads 2" and 1 3/4" ✓ No. of threads per inch 9 ✓



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Foundation
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Are the stays drilled at the outer ends. No ✓ Margin stays: Diameter { At turned off part, -- or Over threads. 2" ✓ Rpt. RPT

No. of threads per inch. 9 ✓ Tubes: Material O.H. Steel External diameter { Plain 3" ✓ Stay 3" ✓ Thickness { 8 L.S.G. ✓ 5/16" & 1/4" No. of threads per inch 9 ✓ Date of

Pitch of tubes 4 1/8" x 4 3/16" ✓ Manhole compensation: Size of opening in No. Reg.

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 3 3/4" in back end Steam Dome: Material --

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

Diameter of rivet holes -- Pitch of rivets -- Percentage of strength of joint { Plates -- Rivets -- Built

Internal diameter -- Thickness of crown -- No. and diameter of Engi

stays -- Inner radius of crown -- Boile

How connected to shell -- Size of doubling plate under dome -- Diameter of rivet holes and pitch Nom

of rivets in outer row in dome connection to shell --

Type of Superheater Smoke Tube Manufacturers of { Tubes National Tube Co., Ellwood City, Pa. Steel forgings -- Steel castings --

Number of elements 48 ✓ Material of tubes O.H. Seamless Steel Internal diameter and thickness of tubes .69 ✓ .095 ✓ MU

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 Yes ✓ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler Yes Manu

Area of each safety valve 1.767 ✓ Are the safety valves fitted with easing gear Yes ✓ Total

Pressure to which the safety valves are adjusted 205 lbs. per sq. in. Hydraulic test pressure. No. 1

tubes 2500 ✓ 2500 ✓ forgings and castings 550 ✓ and after assembly in place. -- Are drain cocks on Teste

valves fitted to free the superheater from water where necessary Yes Area

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with. Yes Area

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

Dates { During progress of work in shops -- June 16, 19, 21, 24, 28, 29. July 1, 3, 7, 8, 12, 13, 14, 17 Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

while building { During erection on board vessel -- 1943: Oct. 15, 19, 21; Nov. 2, 5, 22; Dec. 2, 6, 14, 15, 31; 1944: Jan. 10, 10, 12, 21, 24. Total No. of visits 30 Thick

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. "ROCKWOOD PARK" Mtl. Rpt. No. 5740 Long. Percent

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler has been constructed under Special Survey and in accordance with the 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. Thickn

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

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

This boiler was installed in this vessel under special survey, and in accordance with the Rules and approved plans. The materials and workmanship are of good quality. Both Port and Starboard boilers were emptied and manhole doors removed for an internal examination after the official do steaming trial and were both found in good condition. The combustion chamber fire boxes were examined at this time and found satisfactory. Dimen

After the official Sea Trial, the Port boiler was emptied and manhole doors removed for an internal examination and found in good condition. The combustion chamber fire boxes were also examined at this time and found satisfactory. End p

Survey Fee ... 100.00 : When applied for, Oct 29 1943

Travelling Expenses (if any) 0 : When received, 19

Weyl Renter & P. McCh
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 21 APR 1944

Assigned see minute on L.R. Rpt.