

Rpt. 5a.

Rpt. 5a

## REPORT ON BOILERS.

mlb. Rpt.

No. 5718

Received at London Office.

Date of writing Report - 19 - When handed in at Local Office - 19 - Port of MONTREAL, QUE.

No. in Reg. Book. Survey held at MONTREAL, QUE. Date, First Survey - Last Survey - 19 -

on the S. S. "POINT PELEE PARK" (Number of Visits - ) Tons { Gross 7199 Net 4236

Built at Montreal, Que. By whom built Canadah Vickers Ltd. Yard No. 147 When built 1942

Engines made at MONTREAL, QUE. By whom made Canadian Vickers Limited Engine No. 5847/3 When made 1942

Boilers made at MONTREAL, QUE. By whom made Canadian Vickers Limited Engine No. 5847/3 When made 1942

Nominal Horse Power 504 Owners PARK STEAMSHIP COMPANY LIMITED Port belonging to MONTREAL.

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

Manufacturers of Steel Bethlehem, Carnegie Illinois, Steel Company of Canada Limited (Letter for Record S)

Total Heating Surface of Boilers 2380 square feet Is forced draught fitted Yes Coal or Oil fired Coal

No. and Description of Boilers 3 Single Ended Multitubular Working Pressure 220 lbs./sq. in.

Tested by hydraulic pressure to 380 lbs./sq. in. Date of test - No. of Certificate British Corporation Can each boiler be worked separately Yes

Area of Firegrate in each Boiler 51 sq. ft. No. and Description of safety valves to each boiler One Double Cockburn Improved High Lift

Area of each set of valves per boiler { per Rule 6.33 sq. in. as fitted 7.95 sq. in. Pressure to which they are adjusted 220 lbs./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 No Donkey Boiler

Smallest distance between boilers or uptakes and bunkers or ~~woodwork~~ 6'-0" 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 14'-6-3/16" Length 11'-9" Shell plates: Material 0 H Steel Tensile strength 29-33 tons

Thickness 1-13/32" Are the shell plates welded or flanged No Description of riveting: circ. seams { end Double inter - -

long. seams Triple Zig Zag Diameter of rivet holes in { circ. seams 1 1/2" long. seams 1 1/2" Pitch of rivets { 4-3/16" 10-1/16"

Percentage of strength of circ. end seams { plate 64% rivets 47% Percentage of strength of circ. intermediate seam { plate - - rivets - -

Percentage of strength of longitudinal joint { plate 85.6% rivets 92.9% combined 88.7% Working pressure of shell by Rules 223 lbs./sq. in.

Thickness of butt straps { outer 1-3/32" inner 1-7/32" No. and Description of Furnaces in each Boiler 3 Morrison Corrugated

Material 0 H Steel Tensile strength 26-30 tons Smallest outside diameter 41-9/16"

Length of plain part { top - - bottom - - Thickness of plates { crown 21/32" bottom - - Description of longitudinal joint Lap welded

Dimensions of stiffening rings on furnace or c.c. bottom - - Working pressure of furnace by Rules 230 lbs./square inch

End plates in steam space: Material 0 H Steel Tensile strength 26-30 tons Thickness 1-7/16" Pitch of stays 21" x 21"

How are stays secured Inside and Outside Nuts Working pressure by Rules 221 lbs./square inch

Tube plates: Material { front 0 H Steel back 0 H Steel Tensile strength { 26/30 tons Thickness { 31/32" 13/16"

Mean pitch of stay tubes in nests 10-5/8" x 8 1/4" Pitch across wide water spaces 14 1/2" Working Pressure { front 233 lbs./sq. in. back 266 lbs./sq. in.

Girders to combustion chamber tops: Material 0 H Steel Tensile strength 29-33 tons Depth and thickness of girder

at centre 2 @ 10 1/4" x 7/8" Length as per Rule 34" Distance apart 11" No. and pitch of stays

in each 3 @ 7 5/8" x 11" Working pressure by Rules 229 lbs./sq. inch Combustion chamber plates: Material 0 H Steel

Tensile strength 26-30 tons Thickness: Sides 25/32" Back 23/32" Top 25/32" Bottom 25/32"

Pitch of stays to ditto: Sides 10 3/16" x 9" Back 9" x 9" Top 11" x 7 5/8" Are stays fitted with nuts or riveted over Nutted

Working pressure by Rules 225 lbs./sq. inch Front plate at bottom: Material 0 H Steel Tensile strength 26 - 30 tons

Thickness 31/32" Lower back plate: Material 0 H Steel Tensile strength 26-30 tons Thickness 29/32"

Pitch of stays at wide water space 14 1/2" x 9" Are stays fitted with nuts or riveted over Nutted

Working pressure Supported by 3 stays Main stays: Material 0 H Steel Tensile strength 28-32 tons

Diameter { At body of stay 3 1/2" or - - No. of threads per inch 6 Area supported by each stay 21"x21" = 441 sq. in.

Working pressure by Rules 244 lbs./sq. in. Screw stays: Material 0 H Steel Tensile strength 26-30 tons

Diameter { At turned off part 2 1/8", 2", 1 7/8", 1 1/4" or - - No. of threads per inch 9 Area supported by each stay 9" x 9" = 81 sq. inches



Working pressure by Rules 224 lbs./sq. in. Are 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 3/4" x 9" = 105.8 sq. in. Working pressure by Rules 235 lbs./sq. in.  
Tubes: Material Steel External diameter { Plain 3 3/4" Thickness { 8 S W G No. of threads per inch 9 Stay 3" } 5/16 & 3/8"  
Pitch of tubes 10 5/8" x 8 1/4" Working pressure by Rules 250 lbs./sq. in. Manhole compensation: Size of opening in shell plate None 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 Company Steel forgings Steel castings }  
Number of elements 58 Material of tubes S.D. Steel Internal diameter and thickness of tubes .69 and .095  
Material of headers O H Steel Tensile strength 33 tons 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  
Area of each safety valve 1.76" Are the safety valves fitted with easing gear - Working pressure as per Rules 220 lbs./sq. inch Hydraulic test pressure: 1500 lbs./sq. in. forgings and castings 700 lbs./sq. in. and after assembly in place 400 lbs./sq. in. Are drain cocks or valves fitted to free the superheater from water where necessary Yes  
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes

The foregoing is a correct description,

Manufacturer.

Dates of Survey { During progress of work in shops - Are the approved plans of boiler and superheater forwarded herewith No (If not state date of approval.) }  
while building { During erection on board vessel - Total No. of visits - }

Is this Boiler a duplicate of a previous case - If so, state Vessel's name and Report No. -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These BOILERS were constructed and tested under the survey of Surveyors to the British Corporation Register of Shipping and Aircraft and to identical Plans, as approved by this Society, for the S. S. FORT TADOUSSAC and "FORT CHAMBLY".

Survey Fee ... : : } When applied for 19  
Travelling Expenses (if any) : : } When received 19

*Whidell for L.H. Westbury*  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned *See minute dated 12.2.43*



© 2020

Lloyd's Register Foundation