

REPORT ON BOILERS.

No. 5893

June 22/43

Oct. 15th

42

When handed in at London Office

19

Received at London Office

19 AUG 1943

Port of

MONTREAL, QUE.

5th June 42

20th May

43

7th May, 1942

Last Survey

30th Sept.

19 42

(Number of Visits) 21

Gross 2861.47
Net 1658.00

on the S. S. "LANSDOWNE PARK"

built at LAUZON, LEVIS, P.Q.

By whom built GEO. T. DAVIE & SONS LIMITED

Yard No. 14

When built 1942

engines made at MONTREAL, P.Q.

By whom made Dominion Bridge Co. Ltd.

Engine No. 2002

When made 1942

boilers made at MONTREAL, P.Q.

By whom made Dominion Bridge Co. Ltd.

Boiler No. B1042

When made 1942

nominal Horse Power 268.81

Mgr. Park Steamship Co. Limited

Port belonging to Montreal

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Bethlehem Steel Co.; Steel Co. of Canada; Trenton Steel Co.; Dom. Foundries & Steel

(Letter for Record S)

Total Heating Surface of Boilers 2 Boilers 3854 per square feet

Is forced draught fitted Yes

Coal or Oil fired Coal

and Description of Boilers 2 Multitubular Scotch Boilers (Single Ended)

Working Pressure 200 lbs. per sq. inch

tested by hydraulic pressure to 350 lbs. per sq. in.

Date of test 30.9.42

No. of Certificate 4573, 4574

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" each

area of each set of valves per boiler { per Rule 6.72 sq. in.

as fitted 7.952 sq. in.

Pressure to which they are adjusted 200 lbs. per 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'-1 1/2"

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

greatest 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 flanged

No

Description of riveting: circ. seams

end Welded (Union Melt)

circ. seams Welded (Union Melt)

Diameter of rivet holes in

circ. 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 3 Morrison Corrugated

material O H Steel

Tensile strength 26-30 tons

Smallest outside diameter 3' - 5-5/8"

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 - -

plates in steam space: Material O H Steel

Tensile strength 26-30 tons

Thickness 1-3/16"

Pitch of stays 17 1/2" x 18 1/2"

are stays secured Inside and Outside Nuts -

front plates: Material O H Steel

Tensile strength 26-30 tons

Thickness 29/32"

back plates: Material O H Steel

Tensile strength 26-30 tons

Thickness 13/16"

pitch of stay tubes in nests 10-3/8"

Pitch across wide water spaces 14" x 8 1/2"

boilers to combustion chamber tops: Material O H Steel

Tensile strength 28-32 tons

Depth and Thickness of girder

centre 7 1/2" x 7/8"

Length as per Rule 2' - 9-15/32"

Distance apart 8" centre to centre

No. and pitch of stays

ch 2 - 10 1/2"

Combustion chamber plates: Material O H Steel

side strength 26-30 tons

Thickness: Sides 23/32

Back 23/32

Top 23/32

Bottom 23/32

of stays to ditto: Sides 11" x 7 1/2"

Back 8-3/8" x 10 1/2"

Top 10 1/2" x 8"

Are stays fitted with nuts or riveted over Welded washers & welded over -

at 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"

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

Shipping stays: Material O H Steel

Tensile strength 28-32 tons

meter { At body of stay 3 1/2" and 2 1/2"

No. of threads per inch 6

over threads 2" and 1-3/4"

Tensile strength 26-30 tons

meter { At turned off part 2" and 1-3/4"

No. of threads per inch 9

over threads 2" and 1-3/4"

meter { At body of stay 3 1/2" and 2 1/2"

No. of threads per inch 6

over threads 2" and 1-3/4"

Tensile strength 26-30 tons

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over threads 2" and 1-3/4"

Tensile strength 26-30 tons

Are the stays drilled at the outer ends ☒ No Margin stays: Diameter { At turned off part, or Over threads. 2" 9

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

Pitch of tubes **4-1/8" x 4-3/16"** Manhole compensation: Size of opening 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 Thickness of crown No. and diameter stays Inner radius of crown

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

Material of headers **O H Seamless Tube** Tensile strength Thickness 1-1/8" Can the superheater be shut off the boiler be worked separately 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 1/2" dia. Crosby Special Quick Relief** Are the safety valves fitted with easing gear No

Pressure to which the safety valves are adjusted **200 lbs.** Hydraulic test pressure tubes forgings and castings **550 lbs.** and after assembly in place **550 lbs.** Are drain cocks 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,
DOMINION BRIDGE CO., LIMITED Manufactured by **W. H. Hall**

1942-
Dates of Survey { During progress of work in shops - May 7, 8, 13, July 10, 16, 20, 30 Aug. 10, 11, 21, 25, Sept. 1, 3, 4, 9, 12, 14, 15, 19, 24, 29, 30, Aug. 4, Sept. 6, Oct. 8, Nov. 12, Dec. 11, Jan. 10, Feb. 7, Mar. 12, Apr. 13, May 10, last visit May 20th., 1943. Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) Total No. of visits 114

building { During erection on board vessel -

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **These BOILERS have been constructed under Special Survey and in accordance with the Approved Plans. The materials and workmanship are good.**

The shell longitudinal and circumferential end 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 plates are welded by the Union Melt Process. The BOILERS were tested hydrostatically at 350 lbs. per square inch pressure and found tight.

These boilers have been properly installed and the safety valves adjusted under steam at 200 lbs. per sq.in. and washers noted and tested for accumulation.

Survey Fee ... \$ 325.00
Travelling Expenses (if any) ☒ Included

When applied for, **July 16 1943**
When received, **19**

R. H. Harvey **H. G. R. Pritchard**
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned

FRI. 17 SEP 1943

See minute on FB Rpt.



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