

July 16-1920

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REPORT ON BOILERS.

No. 1807

WED. AUG. 4 1920

Received at London Office

of writing Report Oct. 29 1919 When handed in at Local Office July 13 1920 Port of Montreal

Survey held at Lachine P. 2. Date, First Survey April 10. 1919 Last Survey July 3 1920

Book. on the S.S. "CANADIAN TRAPPER"

(Number of Visits) Gross 3599.94 Net 2183.45

Builder J. E. Faulkner Built at Lachine P. 2. By whom built Davie Shipbuilding & Rep. Co. Ltd. When built 1919

Boiler plates made at Galt Ont. By whom made Goldie McCulloch Ltd. When made 1919

Boiler covers made at Lachine P. 2. By whom made Dominion Bridge Co. Ltd. When made 1919

Registered Horse Power 470 Owners Canadian Government Port belonging to Montreal

WELDED TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Midvale Steel & Ordnance Co.

Number for record S. Total Heating Surface of Boilers 7275 sq ft Is forced draft fitted Yes No. and Description of Boilers 3 Single ended Scotch type. Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs. Date of test

Can each boiler be worked separately Yes Area of fire grate in each boiler 52 sq ft No. and Description of valves to each boiler 2 Spring loaded. 3 1/2" diam Area of each valve 9.621 sq in Pressure to which they are adjusted

they fitted with easing gear 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 Mean dia. of boilers 13' 9 1/2" Length 11' 6"

Material of shell plates S. Thickness 1/4" Range of tensile strength Are the shell plates welded or flanged No.

Direction of riveting: cir. seams DR long. seams DBS. TR Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8.65"

Width of plates or width of butt straps 19" Per centages of strength of longitudinal joint rivets 84.4 plate 85.5 Working pressure of shell by rules 203 lbs

Size of manhole in shell 16" x 12" Size of compensating ring 29" x 33" No. and Description of Furnaces in each boiler 3 suspension built Material S. Outside diameter 43 5/8" Length of plain part top 9 1/16" bottom 9 1/16"

Description of longitudinal joint well. No. of strengthening rings Working pressure of furnace by the rules 219 lbs Combustion chamber

Material S. Thickness: Sides 11/16" Back 11/16" Top 11/16" Bottom 7/8" Pitch of stays to ditto: Sides 9" x 8" Back 8 3/4" x 8 5/8"

9" x 7 3/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 219 lbs Material of stays S. Area at smallest part 1.76 sq in

Area supported by each stay 75.46 sq in Working pressure by rules 210 lbs End plates in steam space: Material S. Thickness 1 1/8"

How are stays secured Double nuts Working pressure by rules 85 lbs Material of stays S. Area at smallest part 5.23 sq in

Area supported by each stay 289 sq in Working pressure by rules 85 lbs Material of Front plates at bottom S. Thickness 13/16" Material of

Back plate S. Thickness 13/16" Greatest pitch of stays 8 3/4" x 8 3/4" Working pressure of plate by rules Diameter of tubes 2 3/4"

Material of tube plates S Thickness: Front 13/16" Back 11/16" Mean pitch of stays 7 1/2" x 7 1/2" Pitch across wide

spaces 12 1/2" Working pressures by rules 274 lbs Girders to Chamber tops: Material S. Depth and thickness of

at centre 8 1/2" x 1 1/2" Length as per rule 3 1/2" Distance apart 7 3/4" Number and pitch of Stays in each 2-9"

Working pressure by rules 210 lbs Steam dome: description of joint to shell % of strength of joint

Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Working pressure of shell by rules Crown plates Thickness How stayed

Superheater. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description, DOMINION BRIDGE COY Limited, S. L. Grately Manufacturer.

During progress of work in shops - - - - - Is the approved plan of boiler forwarded herewith No

During erection on board vessel - - - - - Total No. of visits 18

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

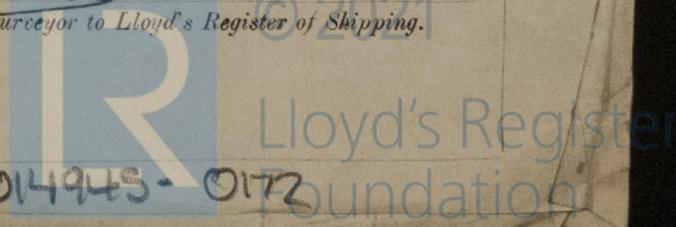
These boilers have been constructed in accordance with the rules and the approved plans. The workmanship is good and the material has been used according to rule. They have been fitted on the above vessel and the safety valves tested under steam to blow at 185 lbs steam pressure. Thickness of plates on the machinery report

Survey Fee ... £ 72.50 : When applied for, Oct. 22 1919 Travelling Expenses (if any) £ 3.00 : When received, Oct. 27 1919

Committee's Minute FRI. AUG. 13 1920

Signed See report attached

H. J. Alderson B.Swinburne Engineer Surveyor to Lloyd's Register of Shipping.



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