

# REPORT ON BOILERS.

No. 1807

WED. AUG. 4 1920

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

 o. in 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*

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

 ines made at *Galt. Ont.* By whom made *Goldie McCulloch. Ltd.* When made *1919*

 ters made at *Lachine P. 2.* By whom made *Dominion Bridge Co. Ltd.* When made *1919*

 istered Horse Power *470*

 Owners *Canadian Government*

 Port belonging to *Montreal*

 ULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Midvale Steel & Ordnance Co.*

 ter for record *S.* Total Heating Surface of Boilers *7275 sq ft* Is forced draft fitted *Yes* No. and Description of

 ers *3 Single ended batch type.* Working Pressure *180 lbs* Tested by hydraulic pressure to *360 lbs.* Date of test

 of Certificate Can each boiler be worked separately *Yes* Area of fire grate in each boiler *52 sq ft* No. and Description of

 ty 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 *✓*

 allest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers *13' 9 1/2"* Length *11' 6"*

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

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

 of plates or width of butt straps *19"* Per centages of strength of longitudinal joint rivets *84.4* Working pressure of shell by

 s *203 lbs* Size of manhole in shell *16" x 12"* Size of compensating ring *29" x 33"* No. and Description of Furnaces in each

 er *3 suspension butt Material S.* Outside diameter *43 5/8"* Length of plain part *top 9' 1/6"* Thickness of plates *bottom 9' 1/6"*

 ription of longitudinal joint *weld.* No. of strengthening rings *✓* Working pressure of furnace by the rules *219 lbs* Combustion chamber

 es: Material *S.* Thickness: Sides *1 1/16"* Back *1 1/16"* Top *1 1/16"* 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 *none* Working pressure by rules *219 lbs* Material of stays *S.* Area at

 allest 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"*

 h of stays *17" x 17"* How are stays secured *Double nut* Working pressure by rules *185 lbs* Material of stays *S.* Area at smallest part *5.23 sq in*

 supported by each stay *289 sq in* Working pressure by rules *185 lbs* Material of Front plates at bottom *S.* Thickness *1 3/16"* Material of

 er back plate *S.* Thickness *1 3/16"* Greatest pitch of stays *8 3/4" x 8 3/4"* Working pressure of plate by rules Diameter of tubes *2 3/4"*

 h of tubes *3 3/4" x 3 3/4"* Material of tube plates *S* Thickness: Front *1 3/16"* Back *1 1/16"* Mean pitch of stays *7 1/2" x 7 1/2"* Pitch across wide

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

 r 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"*

 king pressure by rules *210 lbs* Steam dome: description of joint to shell *✓* % of strength of joint *✓*

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

 of rivets *✓* Working pressure of shell by rules *✓* Crown plates *✓* Thickness *✓* How stayed *✓*

 ERHEATER. Type *✓* Date of Approval of Plan *✓* Tested by Hydraulic Pressure to *✓*

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

 ter of Safety Valve *✓* Pressure to which each is adjusted *✓* Is Easing Gear fitted *✓*

The foregoing is a correct description,

DOMINION BRIDGE COY Limited;

*R. L. Grately*

Manufacturer.

 During progress of *1919* *Apr. 10. 15. 23. May 14. 28. June 12. July 3. 15. 23. Aug. 13* Is the approved plan of boiler forwarded herewith *No*

 During erection on *Nov 15. 23. Dec 2. 15. 16. 1920. June 15. 18 July 3.* Total No. of visits *18*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;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*
*R. J. Alderson* *W. B. Swinburne*  
 Engineer Surveyor to Lloyd's Register of Shipping.

014935 - 014945 - 0172

 Lloyd's Register  
 Foundation