

REPORT ON BOILERS.

REC'D NEW YORK FEB 14 1922 No. 1911

Date of writing Report June 9 1921 When handed in at Local Office June 20 1921 Port of Montreal
 No. in Survey held at Montreal Date, First Survey Nov 14 1920 Last Survey July 3rd 1921
 Reg. Book. 6790 Saff on the Single Screw Steamer "Canadian Constructor" (Number of Visits 43)
 Master Webb Built at Halifax N.S. By whom built Halifax Shipyards Ltd When built 1921-2
 Engines made at Three Rivers P.Q. By whom made Lidewater Shipbuilders When made 1920
 Boilers made at Montreal By whom made Canadian Dickers Ltd. When made 1921
 Registered Horse Power 326 Owners Canadian Government Merchant Marine Port belonging to Halifax N.S.

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY - Manufacturers of Steel Worth Steel Co. DEL. USA.

(Letter for record S.) Total Heating Surface of Boilers 10,848 sq ft Is forced draft fitted yes No. and Description of Boilers 4 Scotch Marine Type. Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 31-5-21
 No. of Certificate 81 Can each boiler be worked separately Yes Area of fire grate in each boiler 66.12 sq ft No. and Description of safety valves to each boiler 2 - 3 1/2" spring loaded. Area of each valve 9.62 sq in Pressure to which they are adjusted 180 lbs
 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 22" Mean dia. of boilers 15'6" Length 11'6"
 Material of shell plates S. Thickness 1 3/8" Range of tensile strength 26-30 tons Are the shell plates welded or flanged No.
 Descrip. of riveting: cir. seams D long. seams T.R. DBS. Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 9 3/16"
 Top of plates or width of butt straps 20" Per centages of strength of longitudinal joint rivets 85.0 Working pressure of shell by rules 187.5 lbs Size of manhole in shell 16" x 12" Size of compensating ring 37 1/2" x 33" No. and Description of Furnaces in each boiler 3 Deighton Material S. Outside diameter 4'2 1/4" Length of plain part top 3 3/8" Thickness of plates crown 2 1/32" bottom 3 3/8" Description of longitudinal joint Weld. No. of strengthening rings 1 Working pressure of furnace by the rules 203 lbs Combustion chamber plates: Material S. Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 1 5/8" Pitch of stays to ditto: Sides 9' x 7 1/2" Back 8' x 8 1/4"
 Top 9' x 7 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 194 lbs Material of stays S. Area at smallest part 1.76 sq ft Area supported by each stay 67.5 sq in Working pressure by rules 225 End plates in steam space: Material S. Thickness 1 1/8"
 Pitch of stays 16' x 18" How are stays secured With nuts Working pressure by rules 203 Material of stays S. Area at smallest part 5.27 sq ft
 Area supported by each stay 298 sq in Working pressure by rules 192 lbs Material of Front plates at bottom S. Thickness 1 3/16" Material of Lower back plate S. Thickness 1 3/16" Greatest pitch of stays 13 1/2" x 8 1/4" Working pressure of plate by rules 187.5 lbs Diameter of tubes 2 1/2"
 Pitch of tubes 3 3/4" x 3 3/4" Material of tube plates S. Thickness: Front 13/16" Back 3/4" Mean pitch of stays 11 1/4" x 7 1/2" Pitch across wide water spaces 13 1/2" Working pressures by rules 185 lbs Girders to Chamber tops: Material S. Depth and thickness of girder at centre 10" x 3/4" 86 Length as per rule 30 5/8" Distance apart 9" Number and pitch of Stays in each 3 - 7 1/2"
 Working pressure by rules 211 lbs Steam dome: description of joint to shell ✓ % of strength of joint ✓
 Diameter ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet holes ✓
 Pitch of rivets ✓ Working pressure of shell by rules ✓ Crown plates ✓ Thickness ✓ How stayed ✓

UPERHEATER. Type ✓ Date of Approval of Plan ✓ Tested by Hydraulic Pressure to ✓
 Date of Test ✓ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler ✓
 Diameter of Safety Valve ✓ Pressure to which each is adjusted ✓ Is Easing Gear fitted ✓

FOR CANADIAN VIKERS LIMITED
 The foregoing is a correct description,
A. Miller Manufacturer.

Dates During progress of 1920. Nov 17-30 Dec 6-13. Jan 12-24-31 Feb 4-9-18-23. Mar 1 Is the approved plan of boiler forwarded herewith yes
 Survey work in shops 15. 24-28. Apr-11. 22. May-14-31. June 9.
 While During erection on 1921. Sept 28-29. Oct 3-4-5-12-14-17-21-28-31. Nov 4-8-11-15-22-25-28. Total No. of visits 43
 On board vessel Dec 9-15-21. 1921. Jan 3-4

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.)
 These Boilers have been constructed under special survey and in accordance with the rules and the approved plans. The materials have been tested according to rule & the workmanship is good. They will be forwarded to Halifax N.S. for installing in the vessel. The boilers have been installed on board together with mountings & connections & tested by hydraulic pressure 320 lbs and afterwards under steam and safety valves adjusted to 180 lbs. In my opinion they are eligible for record of LMC 1-22
 Survey Fee 75 \$ 220.50 When applied for June 9 1921
 Travelling Expenses (if any) 11.50 When received June 16 1921

Committee's Minute FRI. 10 MAR. 1922
W. J. Alderson Engineer Surveyor to Lloyd's Register of Shipping.
 Lloyd's Register Foundation