

# REPORT ON BOILERS.

No. 1479

Received at London Office WED. 26 SEP. 1918

Date of writing Report Feb. 28 1918 When handed in at Local Office Mar. 8 1918 Port of Montreal

No. in Survey held at Montreal Date, First Survey Dec. 11 - 1917 Last Survey Feb. 27 1918  
(Number of Visits 28) } Gross 2332  
Tons } Net 1440

Entry on the Wood screw Steamer "War Nootka"

Master N.C. King Built at Yaucooner Bb By whom built Western Canada Shipyards When built 1918

Engines made at Toronto By whom made Canadian Allis-Chalmers When made 1918

Boilers made at Montreal By whom made Canadian Vickers Ltd. When made 2-18

Registered Horse Power 328 Owners Messrs Furnie & Co. Port belonging to Liverpool

~~MULTITUBULAR~~ **WATERTUBE** BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~—Manufacturers of Steel Lukens Co. Penn. U.S.A.

Letter for record ) Total Heating Surface of Boilers 5280 sq Is forced draft fitted Yes No. and Description of Boilers 2 Howden Water Tube. Working Pressure 185lbs Tested by hydraulic pressure to 370lbs Date of tests Jan 30-31 Feb. 19 21-27

No. of Certificate ✓ Can each boiler be worked separately Yes Area of fire grate in each boiler 60 sq No. and Description of Safety valves to each boiler 2 Marine Type. Area of each valve 8.2958 Pressure to which they are adjusted 185

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

Smallest distance between boilers or uptakes and bunkers or woodwork 8" Mean dia. of boilers 13'-6" Length 12'-0"

Material of shell plates Steel Thickness TOP DRUM 1/2" BOTTOM 9/16" Range of tensile strength 26-30 tons Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams Single long. seams Double Diameter of rivet holes in long. seams 7/8" Pitch of rivets 2.65"

Lap of plates or width of butt straps 4 3/16" Per centages of strength of longitudinal joint 68.58 TOP 79.86 BOTTOM Working pressure of shell by rules 67.00 65.8

Size of manhole in shell 16" x 12" Size of compensating ring ✓ No. and Description of Furnaces in each boiler

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

plates: Material Steel Thickness: Sides ✓ Back ✓ Top 1 3/8" Bottom ✓ Pitch of stays to ditto: Sides ✓ Back ✓

Top 6" x 6 3/4" If stays are fitted with auto or riveted heads Yes Working pressure by rules ✓ Material of stays Steel Area at smallest part 1.010

Area supported by each stay 40.50 Working pressure by rules 19 1/4 End plates in steam space: Material Steel Thickness 7/8" + 3/4"

Pitch of stays ✓ How are stays secured ✓ Working pressure by rules ✓ Material of stays ✓ Area at smallest part ✓

Area supported by each stay ✓ Working pressure by rules ✓ Material of Front plates at bottom Steel Thickness 7/8" Material of Lower back plate Steel Thickness 3/4"

Greatest pitch of stays ✓ Working pressure of plate by rules ✓ Diameter of tubes 2"

Pitch of tubes 2 3/4" x 3 1/8" Material of tube plates Steel Thickness: TOP 1 3/8" BOTTOM 1 3/8" Mean pitch of stays ✓ Pitch across wide water spaces ✓

Working pressures by rules 252 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 1/4" x 1 1/8" double

Length as per rule ✓ Distance apart 6" Number and pitch of Stays in each 4 - 6 3/4"

Working pressure by rules 19 1/4 Steam ✓ description of joint to shell ✓ Pads riveted to drums. ✓ Pads riveted to collectors. ✓ % of strength of joint

Diameter 27" Thickness of shell plates 7/16" Material Steel Description of longitudinal joint Lap Diam. of rivet holes 1 3/16"

Pitch of rivets 2 1/2" Working pressure of shell by rules 252lbs END ✓ MANHOLE END 3/4" How stayed ✓

Crown plates Steel Thickness BLANK END 1"

**SUPERHEATER.** 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 ✓

The foregoing is a correct description of the boiler as built. W.A. J.E.L. Manufacturer. R.R. Manager

Dates of Survey } During progress of work in shops - - - } Is the approved plan of boiler forwarded herewith No.  
while building } During erection on board vessel - - - } Total No. of visits 28

1917. Dec. 11, 14, 29, 31. 1918. Jan 2, 4, 7, 10, 12, 15, 18, 21, 23, 26.

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) These boilers have been constructed under special survey and in accordance with the rules. The workmanship is satisfactory & in my opinion they are eligible to receive the class of T.L.M.C with date after being installed in the vessel. The equalizing tubes fitted & the boiler tested as a whole.

The following marks are stamped on the collectors ✓ The stamp on the elements are similar except for the

No. 1A No. 1B No. 1C No. 2A No. 2B No. 2C

31-1-18 30-1-18 31-1-18 19-2-18 19-2-18 21-2-18

Survey Fee ... £ 861.00 When applied for, Mar. 1 1918

Travelling Expenses (if any) £ 50 When received, 307 4/19 1918

Committee's Minute FRI. 4-OCT. 1918 TUE. 10. DEC. 1918

Assigned TUE. 25 MAR. 1919



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