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(71) Applicant: **CHEVRON JAPAN LTD.** [JP/JP]; Atago Green Hills Mori Tower 18F, 2-5-1 Atago Minato-Ku, Tokyo, 105-6218 (JP).

(72) Inventors: **KUBO, Koichi**; Atago Green Hills Mori Tower 18F, 2-5-1 Atago Minato-Ku, Tokyo, 105-6218 (JP). **TAKEUCHI, Yoshitaka**; Atago Green Hills Mori Tower 18F, 2-5-1 Atago Minato-Ku, Tokyo, 105-6218 (JP). **HATTORI, Taiki**; Atago Green Hills Mori Tower 18F, 2-5-1 Atago Minato-Ku, Tokyo, 105-6218 (JP). **SONE, Chihiro**; Atago Green Hills Mori Tower 18F, 2-5-1 Atago Minato-Ku, Tokyo, 105-6218 (JP).

(74) Agent: **ASAMURA PATENT OFFICE, P.C.**; Tennoz Central Tower, 2-2-24 Higashi-Shinagawa, Shinagawa-ku, Tokyo 1408776 (JP).

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(54) Title: LOW VISCOSITY LUBRICATING OIL COMPOSITIONS

(57) Abstract: Provided is a lubricating oil composition having a HTHS viscosity at 150°C in a range of about 1.7 to about 3.2 mPa s and a low temperature cold cranking viscosity of less than 7,000 mPa s at -20 °C, comprising: (a) a major amount of an oil of lubricating viscosity having a kinematic viscosity at 100°C of from 3.5 mm²/s to 20 mm²/s and a viscosity index of greater than 120 with a sulfur content of less than 0.03 wt.%, are classified into the API group III, IV, or V base stock category, and have an aromatics content (C_A) of less than 5%; (b) an organomolybdenum compound; (c) a dispersed hydrated alkali metal borate compound; (e) one or more dispersants; (f) one or more calcium-based metal detergents; and (g) optionally, one or more magnesium-based metal detergents. Also provided is a method for improving wear, high temperature detergency, and thermal stability in an engine comprising operating said engine with said lubricating oil composition.