

OXIDATION STABLE GEAR OIL COMPOSITIONS

ABSTRACT OF THE DISCLOSURE

5 A gear oil lubricant composition and method of operating a vehicle with the composition. The composition may include a first olefinic lubricant having a viscosity ranging from about 80 centistokes to about 150 centistokes at 100 °C and a second olefinic lubricant having a viscosity ranging from about 2 centistokes to about 15 centistokes at 100 °C. A ratio of the first olefinic lubricant to the second olefinic
10 lubricant may range from about 2:1 to about 8:1. Additionally, the composition may include an alkylated naphthalene base oil, a boronated ashless dispersant, at least one hindered phenol antioxidant, at least one alkylated diphenylamine antioxidant, and a gear oil additive package having an active phosphorus content of less than about 700 ppm and an active sulfur content of less than about 3 wt. %. The gear oil lubricant
15 composition may contain less than about 0.1 percent by weight antioxidant composition based on a total weight of the lubricant composition.