

LUBRICATING OIL WITH HIGH OXIDATION STABILITY

FIELD OF THE INVENTION

- 5 This invention is directed to lubricating oils having a high viscosity index and excellent oxidation stability, a process for making lubricating oil with superior oxidation stability, and a method for improving the oxidation stability of a lubricating oil.

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BACKGROUND OF THE INVENTION

- WO 00/14183 and US 6,103,099 to ExxonMobil teach a process for producing an isoparaffinic lubricant base stock which comprises hydroisomerizing a waxy, paraffinic, Fischer-Tropsch synthesized hydrocarbon feed comprising 650-750°F+ hydrocarbons, said hydroisomerization conducted at a conversion level of said 650-750°F+ feed hydrocarbons sufficient to produce a 650-750°F+ hydroisomerate base stock which comprises said base stock which, when combined with at least one lubricant additive, will form a lubricant meeting desired specifications.
- 15 20 Hydraulic oils are claimed, but nothing is taught regarding processes to make or compositions of lubricating oils having excellent oxidation stability.

- Conoco ECOTERRA™ Hydraulic Fluid is formulated with high quality hydrocracked base oils and fortified with an ashless, zinc-free antiwear additive package. It has a high oxidation stability, such that the ISO 32 grade has a result of 700 minutes in the rotary pressure vessel oxidation test (RPVOT) by ASTM D 2272 at 150 degrees C. The ISO 46 grade has a result of 685 minutes, and the ISO 68 grade has a result of 675 minutes. Conoco ECOTERRA™ Hydraulic Fluid, however has a low viscosity index of about
- 25 30 102 or less.