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(54) Title: MULTIGRADE ENGINE OIL PREPARED FROM FISCHER-TROPSCH DISTILLATE BASE OIL

(57) Abstract: A multigrade engine oil meeting the specifications for SAE J300 revised June 2001 requirements and a process for preparing it, said engine oil comprising (a) between about 15 to about 94.5 wt % of a hydroisomerized distillate Fischer-Tropsch base oil characterized by (i) a kinematic viscosity between about 2.5 and about 8 cSt at 100 °C, (ii) at least about 3 wt % of the molecules having cycloparaffin functionality, and (iii) a ratio of weight percent molecules with monocycloparaffin functionality to weight percent of molecules with multicycloparaffin functionality greater than about 15; (b) between about 0.5 to about 20 wt % of a pour point depressing base oil blending component prepared from an hydroisomerized bottoms material having an average degree of branching in the molecules between about 5 and 9 alkyl-branches per 100 carbon atoms and wherein not more than 10 wt % boils below about 900 °F; and (c) between about 5 to about 30 wt % of an additive package designed to meet the specifications for ILSAC GF-3.



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