

Title (en)
LUBRICATING OIL COMPOSITION FOR INTERNAL COMBUSTION ENGINES

Title (de)
SCHMIERMITTELZUSAMMENSETZUNG FÜR VERBRENNUNGSMOTOREN

Title (fr)
COMPOSITION LUBRIFIANTE POUR UN MOTEUR À COMBUSTION INTERNE

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Abstract (en)
[origin: EP1757673A1] The present invention relates to a low phosphorus lubricating oil composition for internal combustion engines which demonstrates fuel economy benefits while also providing high temperature oxidation, piston deposits, and wear. The lubricating oil composition of the present invention comprises: a) major amount of a base oil of lubricating viscosity; b) from about 0.1 to 10 wt % of an overbased alkaline earth metal alkyl aryl sulfonate detergent having a total base number (TBN) of about 25 to 500; c) from about 0.02 to 10 wt % of a oxymolybdenum-containing complex; d) from about 0.1 to 5 wt % of a friction modifier; and e) from about 0.2 to 10 wt % of an antioxidant selected from the group consisting of a diphenylamine type, a sulfurized ester-containing compound and mixtures thereof; wherein the total concentration of the oxymolybdenum-containing complex and antioxidant must be at least 1.3 wt %, based on the total weight of the lubricating oil composition and wherein the phosphorus content of the total lubricating oil composition is 0.08 wt % or less, based on the total weight of the lubricating oil composition.

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Cited by
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