

Title (en)
LUBRICATING OIL COMPOSITION FOR INTERNAL COMBUSTION ENGINE

Title (de)
SCHMIERÖLZUSAMMENSETZUNG FÜR VERBRENNUNGSMOTOR

Title (fr)
COMPOSITION D'HUILE DE LUBRIFICATION POUR UN MOTEUR A COMBUSTION

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Application
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Abstract (en)
[origin: EP1439217A1] A lubricating oil composition for internal combustion engine, comprising a lubricating base oil; (A) a triphosphate represented by formula (1) below in an amount of 0.01 to 0.2 percent by mass in terms of phosphorus; (B) succinimide and/or derivative thereof in an amount of 0.01 to 0.3 percent by mass in terms of nitrogen; (C) an alkali metal or alkaline earth metal detergent in an amount of 0.05 to 1 percent by mass in terms of metal; and (D) a phenol-based and/or amine-based anti-oxidants in an amount of 0.01 to 3 percent by mass: $O = P(OR<1>)_3$ wherein the groups of $R<1>$ are each independently a hydrocarbon group having 1 to 30 carbon atoms and are the same or different from each other. The lubricating oil composition is excellent in anti-wear properties, base number retaining properties, high temperature detergency, and low friction characteristics.

IPC 8 full level
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Cited by
EP1829952A4; EP2944682A4; EP2154231A4; GB2444131A; GB2444131B; US8709988B2; US9909083B2; WO2006068203A1; US8071518B2; US8481467B2; EP2675876B1; EP2141220B1

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