

Title (en)
LUBRICATING OIL COMPOSITION FOR INTERNAL COMBUSTION ENGINE

Title (de)
SCHMIERÖLZUSAMMENSETZUNG FÜR BRENNKRAFTMASCHINEN

Title (fr)
COMPOSITION LUBRIFIANTE POUR MOTEUR A COMBUSTION INTERNE

Publication
EP 1437396 A4 20090812 (EN)

Application
EP 02799462 A 20020906

Priority
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• JP 2002114713 A 20020417

Abstract (en)
[origin: EP1437396A1] A lubricating oil comprises a mineral and/or synthetic base oil containing: (a) ash-free succinimide dispersant; (b) metallic detergent; (c) zinc (sec-alkyl)dithiophosphate; and (d) ash-free phosphorus compound as antiwear agent. The content of sulfated ashes derived from metal elements in the composition is 0.3-1.0 wt.%. A lubricating oil comprises a mineral and/or synthetic base oil containing (wt.%): (a) 0.08-0.40 % (based on nitrogen content) ash-free succinimide dispersant; (b) 0.06-0.22 % (based on metal content) metallic detergent; (c) 0.04-0.08 % (based on phosphorus content) zinc (sec-alkyl)dithiophosphate; and (d) 0.01-0.04 % (based on phosphorus content) ash-free phosphorus compound as antiwear agent. The content of sulfated ashes derived from metal elements in the composition is 0.3-1.0 wt.%.

IPC 8 full level
C10M 163/00 (2006.01); **C10M 101/02** (2006.01); **C10M 105/04** (2006.01); **C10M 133/16** (2006.01); **C10M 133/56** (2006.01); **C10M 137/02** (2006.01); **C10M 137/04** (2006.01); **C10M 137/10** (2006.01); **C10M 159/20** (2006.01); **C10M 159/22** (2006.01); **C10M 167/00** (2006.01); **C10M 169/04** (2006.01); **C10N 10/04** (2006.01); **C10N 30/04** (2006.01); **C10N 30/08** (2006.01); **C10N 40/25** (2006.01)

CPC (source: EP US)
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