Title (en)

IMPROVED LUBRICANT COMPOSITIONS FOR INTERNAL COMBUSTION ENGINES

Publication

EP 0311319 B1 19910821 (EN)

Application

EP 88309140 A 19880930

Priority

US 10417587 A 19871002

Abstract (en)

[origin: EP0311319A1] In accordance with the present invention, there are provided low sulfated ash lubricating oil compositions which comprise an oil of lubricating viscosity as the major component and as the minor component (A) at least about 3 wt% of at least one ashless nitrogen- or ester-containing dispersant, (B) at least about 2 wt% of at least one sulfurized alkyl phenol, and (C) at least one metal dihydrocarbyl dithiophosphate wherein the hydrocarbyl groups contain an average of at least 6 carbon atoms, and wherein the lubricating oil is characterized by a total sulfated ash (SASH) level of from 0.01 to about 0.6 wt% and by a SASH:dispersant wt:wt ratio of from about 0.01 to about 0.2:1.

IPC 1-7

C10M 141/10; C10N 30/10; C10N 40/00

IPC 8 full level

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CPC (source: EP US)

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