

Title (en)

Low phosphorous engine oil compositions and additive compositions

Title (de)

Motorölzusammensetzungen mit niedrigem Phosphorgehalt und Additivzusammensetzungen

Title (fr)

Compositions d'huile moteur à faible teneur en phosphore et compositions d'additifs

Publication

**EP 0588561 B1 19981202 (EN)**

Application

**EP 93307133 A 19930909**

Priority

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- US 11386893 A 19930827

Abstract (en)

[origin: EP0588561A1] An engine oil composition having a base oil, an ashless dispersant, a metal-containing detergent, zinc dithiophosphate and a sulfur-containing phenol derivative. Examples of sulfur-containing phenol derivative include 2,4-bis{(octylthio)methyl}-o-cresol, 2,2-thiodiethylenebis{3-(3,5-di- t-butyl-4-hydroxyphenyl)propionate}, and tridecyl 2-(3,5-di-ti-butyl- 4-hydroxybenzylthio)acetate.

IPC 1-7

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IPC 8 full level

**C10M 135/24** (2006.01); **C10M 135/26** (2006.01); **C10M 141/10** (2006.01); **C10M 167/00** (2006.01)

CPC (source: EP)

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Cited by

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