

Title (en)

Lubricating oil compositions and methods for improving fuel economy in an internal combustion engine using same

Title (de)

Schmiermittelzusammensetzungen und Methoden zur Verbesserung der Kraftstoffeinsparung in einem Verbrennungsmotor

Title (fr)

Compositions d'huiles lubrifiantes et méthode pour améliorer les économies de carburant dans un moteur à combustion interne

Publication

**EP 1462509 A3 20050622 (EN)**

Application

**EP 04251795 A 20040326**

Priority

US 40217003 A 20030328

Abstract (en)

[origin: EP1462509A2] A lubricating oil composition is provided which comprises (a) an oil of lubricating viscosity having a kinematic viscosity of about 2 to 10.5 cSt at 100 DEG C and (b) a friction modifying effective amount of an ashless friction modifier comprising a reaction product of a C4 to about C75 fatty acid ester and an alkanolamine. Particularly preferred is a lubricating oil composition comprising (a) an oil of lubricating viscosity having a kinematic viscosity of about 2 to 10.5 cSt at 100 DEG C and comprising about 55 to about 85 weight percent of a first lubricating oil, and about 15 to about 45 weight percent of a second lubricating oil wherein the kinematic viscosity of the second lubricating oil is lower than the kinematic viscosity of the first lubricating oil at 100 DEG C; and (b) about 0.5 to about 5.0 weight percent, based on the total weight of the lubricating oil composition, of an ashless friction modifier comprising a reaction product of a C4 to about C75 fatty acid ester and an alkanolamine.

IPC 1-7

**C10M 169/04**; **C10M 159/12**

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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