Title (en)

USE OF LUBRICATING OIL COMPOSITION FOR PREVENTING OR REDUCING LOW SPEED PRE-IGNITION

Title (de)

VERWENDUNG EINER SCHMIERSTOFFZUSAMMENSETZUNG ZUR VERHINDERUNG ODER REDUZIERUNG DER FRÜHZÜNDUNG BEI NIEDRIGEN DREHZAHLEN

Title (fr)

UTILISATION D'UNE COMPOSITION LUBRIFIANTE À RÉDUIRE OU PRÉVENIR LE PRÉALLUMAGE À VITESSE BASSE

Publication

EP 3140378 B1 20191106 (EN)

Application

EP 15725927 A 20150508

Priority

- US 201461990762 P 20140509
- US 201514706161 A 20150507
- US 2015029820 W 20150508

Abstract (en)

[origin: US2015322367A1] A method for preventing or reducing low speed pre-ignition in an engine lubricated with a lubricating oil by using as the lubricating oil a formulated oil. The formulated oil has a composition including a lubricating oil base stock as a major component, and at least one detergent, as a minor component. The detergent includes at least one alkaline earth metal salt of an organic acid, and the at least one alkaline earth metal salt of an organic acid comprises at least one magnesium salt of an organic acid. A lubricating engine oil having a composition including a lubricating oil base stock as a major component; and at least one detergent, as a minor component. The lubricating oils of this disclosure are particularly advantageous as passenger vehicle engine oil (PVEO) products.

IPC 8 full level

C10M 163/00 (2006.01)

CPC (source: CN EP US)

C10M 129/10 (2013.01 - CN US); **C10M 129/54** (2013.01 - CN); **C10M 129/56** (2013.01 - CN US); **C10M 131/12** (2013.01 - CN US); **C10M 133/16** (2013.01 - CN US); **C10M 135/10** (2013.01 - CN); **C10M 137/02** (2013.01 - CN US); **C10M 137/06** (2013.01 - CN US); **C10M 163/00** (2013.01 - CN EP US); C10M 2201/085 (2013.01 - EP US); C10M 2203/1006 (2013.01 - EP US); C10M 2203/1025 (2013.01 - EP US); C10M 2205/0285 (2013.01 - EP US); C10M 2207/023 (2013.01 - CN); C10M 2207/028 (2013.01 - EP US); C10M 2207/122 (2013.01 - EP US); C10M 2207/123 (2013.01 - EP US); C10M 2207/144 (2013.01 - CN); C10M 2207/146 (2013.01 - EP US); C10M 2207/16 (2013.01 - EP US); C10M 2207/262 (2013.01 - EP US); C10M 2211/044 (2013.01 - CN); C10M 2215/08 (2013.01 - CN); C10M 2215/28 (2013.01 - EP US); C10M 2217/043 (2013.01 - EP US); C10M 2219/044 (2013.01 - CN); C10M 2219/046 (2013.01 - EP US); C10M 2223/02 (2013.01 - CN); C10M 2223/042 (2013.01 - CN); C10M 2223/045 (2013.01 - EP US); C10N 2010/04 (2013.01 - EP US); C10N 2030/45 (2020.05 - EP US); C10N 2030/52 (2020.05 - EP US); C10N 2040/25 (2013.01 - CN EP US); C10N 2040/255 (2020.05 - EP US); C10N 2060/14 (2013.01 - EP US)

C-Set (source: EP US)

C10M 2203/1025 + C10N 2020/02

Cited by

US2019316059A1; US10920165B2; EP3950904A4

Designated contracting state (EPC)

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DOCDB simple family (application)

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