

Title (en)

USE OF A 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 3140379 B1 20180919 (EN)

Application

EP 15725928 A 20150508

Priority

- US 201461990764 P 20140509
- US 201514706190 A 20150507
- US 2015029823 W 20150508

Abstract (en)

[origin: US2015322368A1] 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 boron-containing compound, as a minor component. The at least one boron-containing compound includes at least one borated dispersant, or a mixture of a boron-containing compound and a non-borated dispersant. A lubricating engine oil having a composition including a lubricating oil base stock as a major component, and at least one boron-containing compound, 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 - US); **C10M 129/28** (2013.01 - US); **C10M 129/68** (2013.01 - US); **C10M 129/74** (2013.01 - US); **C10M 133/16** (2013.01 - US); **C10M 135/10** (2013.01 - US); **C10M 137/02** (2013.01 - US); **C10M 163/00** (2013.01 - CN EP US); **C10M 2201/085** (2013.01 - CN EP US); **C10M 2207/028** (2013.01 - CN EP US); **C10M 2207/122** (2013.01 - CN EP US); **C10M 2207/123** (2013.01 - CN EP US); **C10M 2207/146** (2013.01 - CN EP US); **C10M 2207/16** (2013.01 - CN EP US); **C10M 2207/262** (2013.01 - CN EP US); **C10M 2215/28** (2013.01 - CN EP US); **C10M 2217/043** (2013.01 - CN EP US); **C10M 2219/046** (2013.01 - CN EP US); **C10M 2223/045** (2013.01 - CN EP US); **C10N 2010/04** (2013.01 - CN EP US); **C10N 2030/45** (2020.05 - CN EP US); **C10N 2030/52** (2020.05 - CN EP US); **C10N 2040/25** (2013.01 - CN EP US); **C10N 2040/255** (2020.05 - CN EP US); **C10N 2060/14** (2013.01 - CN EP US)

Citation (examination)

WO 2016154167 A1 20160929 - LUBRIZOL CORP [US]

Cited by

WO2015171978A1

Designated contracting state (EPC)

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