

Title (en)

METHOD FOR IMPROVING ENGINE FUEL EFFICIENCY

Title (de)

VERFAHREN ZUR VERBESSERUNG DER BRENNSTOFFEFFIZIENZ EINES MOTORS

Title (fr)

PROCÉDÉ D'AMÉLIORATION DU RENDEMENT DE CARBURANT D'UN MOTEUR

Publication

EP 2935541 A1 20151028 (EN)

Application

EP 13805672 A 20131125

Priority

- US 201261740555 P 20121221
- US 201314087185 A 20131122
- US 2013071683 W 20131125

Abstract (en)

[origin: WO2014099286A1] A method for improving friction reduction and fuel efficiency, while maintaining or improving wear protection, in an engine lubricated with a lubricating oil by using as the lubricating oil a formulated oil. The formulated oil has a composition comprising a lubricating oil base stock as a major component; and a detergent mixture comprising a first detergent having a TBN of less than about 100, and at least one other detergent different from said first detergent, as a minor component. The composition contains greater than about 4 weight percent of the first detergent, based on the total weight of the formulated oil. Friction reduction and fuel efficiency are improved and wear protection is maintained or improved as compared to friction reduction, fuel efficiency and wear protection achieved using a lubricating engine oil containing a detergent mixture having other than the first detergent having a TBN of less than about 100.

IPC 8 full level

C10M 141/02 (2006.01); **C10M 141/08** (2006.01)

CPC (source: EP US)

C10M 141/02 (2013.01 - US); **C10M 159/20** (2013.01 - EP US); **C10M 2203/1006** (2013.01 - EP US); **C10M 2203/1025** (2013.01 - EP US); **C10M 2205/028** (2013.01 - EP US); **C10M 2207/028** (2013.01 - EP US); **C10M 2207/10** (2013.01 - EP US); **C10M 2207/262** (2013.01 - EP US); **C10M 2219/042** (2013.01 - EP US); **C10M 2219/044** (2013.01 - EP US); **C10M 2219/046** (2013.01 - EP US); **C10M 2223/04** (2013.01 - EP US); **C10N 2010/02** (2013.01 - EP US); **C10N 2010/04** (2013.01 - EP US); **C10N 2030/02** (2013.01 - EP US); **C10N 2030/04** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2030/52** (2020.05 - EP US); **C10N 2030/54** (2020.05 - EP US); **C10N 2040/25** (2013.01 - EP US)

Citation (search report)

See references of WO 2014099286A1

Designated contracting state (EPC)

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