

Title (en)

Fuel economy lubricating oil composition for lubricating diesel engines

Title (de)

Schmierölzusammensetzung mit Kraftstoffeinsparung zur Schmierung von Dieselmotoren

Title (fr)

Composition d'huile lubrifiante économisant du carburant pour la lubrification de moteurs diesel

Publication

**EP 2011855 B1 20120926 (EN)**

Application

**EP 08252215 A 20080627**

Priority

JP 2007170667 A 20070628

Abstract (en)

[origin: EP2011855A2] A lubricating oil composition for internal combustion engines comprising a base oil having and lubricating viscosity and additives composed of a) a salt of an alkali metal or alkaline earth metal and an alkylsalicylate and/or an alkylcarboxylate, b) a nitrogen atom-containing ashless dispersant and/or a nitrogen atom-containing dispersive viscosity index improver, c) a neutral salt of a fatty acid and a fatty amine, and d) oxidation inhibitor, is effective for lubricating diesel engines using a low sulfur-content fuel, even though it has a low sulfated ash content, a low sulfur content and a low phosphorus content.

IPC 8 full level

**C10M 169/04** (2006.01); **C10M 141/06** (2006.01); **C10N 40/25** (2006.01)

CPC (source: EP US)

**C10M 141/06** (2013.01 - EP US); **C10M 169/04** (2013.01 - EP US); **C10M 2205/022** (2013.01 - EP US); **C10M 2207/026** (2013.01 - EP US); **C10M 2207/126** (2013.01 - EP US); **C10M 2207/262** (2013.01 - EP US); **C10M 2209/084** (2013.01 - EP US); **C10M 2215/064** (2013.01 - EP US); **C10M 2215/086** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2219/046** (2013.01 - EP US); **C10M 2223/045** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2030/42** (2020.05 - EP US); **C10N 2030/43** (2020.05 - EP US); **C10N 2030/45** (2020.05 - EP US); **C10N 2030/54** (2020.05 - EP US); **C10N 2040/252** (2020.05 - EP US)

Cited by

EP2791295A4; EP2573155A1; RU2768169C2; FR3048433A1; CN108699474A; CN102549125A; KR20120093933A; CN105829512A; CN107075403A; RU2709211C2; US9029303B2; US8648021B2; US9404062B2; US8785359B2; US8546312B2; WO2017149119A1; US8796194B2; US8999904B2; US9447359B2; WO2015059162A1; WO2016046133A1; WO2011042552A1; EP2316823A1; US8563486B2; US8703663B2; US9487728B2

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

**EP 2011855 A2 20090107**; **EP 2011855 A3 20100728**; **EP 2011855 B1 20120926**; CA 2636301 A1 20081228; CA 2636301 C 20151229; JP 2009007484 A 20090115; JP 5079407 B2 20121121; SG 148978 A1 20090129; US 2009005278 A1 20090101

DOCDB simple family (application)

**EP 08252215 A 20080627**; CA 2636301 A 20080627; JP 2007170667 A 20070628; SG 2008049009 A 20080627; US 14794108 A 20080627