

Title (en)

LOW DISPERSANT LUBRICANT COMPOSITION

Title (de)

SCHMIERMITTELZUSAMMENSETZUNG MIT NIEDRIGEM DISPERGIERMITTELGEHALT

Title (fr)

COMPOSITION LUBRIFIANTE À FAIBLE TENEUR EN AGENT DISPERSANT

Publication

EP 3655511 A1 20200527 (EN)

Application

EP 18749704 A 20180717

Priority

- US 201762533306 P 20170717
- US 2018042372 W 20180717

Abstract (en)

[origin: WO2019018329A1] The disclosed technology relates to lubricants for compression ignition internal combustion engines, particularly those demonstrating at least one of improved seals performance, reduced deposit formation, and excellent durability. The present invention provides a low dispersant lubricating composition comprising (a) an oil of lubricating viscosity, (b) about 0.5 weight percent to 3.0 weight percent of an oxyalkylated hydrocarbyl- substituted phenol compound, (c) about 0.01 weight percent to 2.6 weight percent of a polyalkenylsuccinimide dispersant, and (d) about 0.05 weight percent to 2.0 weight percent of a polyolefin dispersant viscosity modifier, and wherein the lubricating composition contains zinc in an amount less than about 700 ppm by weight of the composition.

IPC 8 full level

C10M 161/00 (2006.01)

CPC (source: EP US)

C10M 141/12 (2013.01 - US); **C10M 157/04** (2013.01 - US); **C10M 161/00** (2013.01 - EP US); **C10M 169/044** (2013.01 - US); **C10M 2205/022** (2013.01 - EP); **C10M 2205/024** (2013.01 - EP); **C10M 2207/141** (2013.01 - US); **C10M 2209/086** (2013.01 - EP); **C10M 2209/103** (2013.01 - EP); **C10M 2209/105** (2013.01 - EP); **C10M 2215/064** (2013.01 - US); **C10M 2215/28** (2013.01 - EP); **C10M 2217/042** (2013.01 - US); **C10M 2217/06** (2013.01 - EP); **C10M 2219/046** (2013.01 - US); **C10M 2221/041** (2013.01 - US); **C10M 2223/045** (2013.01 - US); **C10M 2227/09** (2013.01 - US); **C10M 2290/02** (2013.01 - US); **C10N 2030/02** (2013.01 - US); **C10N 2030/04** (2013.01 - EP US); **C10N 2030/10** (2013.01 - US); **C10N 2030/12** (2013.01 - US); **C10N 2030/45** (2020.05 - US); **C10N 2030/78** (2020.05 - US); **C10N 2040/25** (2013.01 - US); **C10N 2040/252** (2020.05 - EP); **C10N 2040/253** (2020.05 - EP); **C10N 2060/09** (2020.05 - EP)

Citation (search report)

See references of WO 2019018329A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2019018329 A1 20190124; CA 3069970 A1 20190124; CN 111032838 A 20200417; EP 3655511 A1 20200527; US 2020199479 A1 20200625

DOCDB simple family (application)

US 2018042372 W 20180717; CA 3069970 A 20180717; CN 201880052298 A 20180717; EP 18749704 A 20180717; US 201816631660 A 20180717