

Title (en)

ENGINE LUBRICANTS FOR SILOXANE DEPOSIT CONTROL

Title (de)

MOTORSCHMIERMITTEL ZUR VERHINDERUNG VON SILOXANABLAGERUNGEN

Title (fr)

LUBRIFIANTS POUR MOTEURS POUR LA LUTTE CONTRE LES DÉPÔTS DE SILOXANE

Publication

EP 3484985 B1 20220608 (EN)

Application

EP 17742901 A 20170710

Priority

- US 201662362665 P 20160715
- US 2017041308 W 20170710

Abstract (en)

[origin: WO2018013451A1] A zinc free or substantially zinc free lubricant having a sulfated ash content of less than about 1.0 percent and including (a) an oil of lubricating viscosity; (b) 0.03 to about 3.0 weight percent of a phosphite compound; (c) an metal containing detergent; (d) a polyisobutylene succinimide dispersant derived from an ethylene polyamine and having a carbonyl to nitrogen ratio equal or greater than 1; (e) at least one other dispersant; (f) a boron containing compound in amount to provide at least 25 ppm boron to the lubricant composition is useful for inhibiting siloxane deposits in a stationary gas engine fueled by natural gas having a high silicon concentration.

IPC 8 full level

C10M 163/00 (2006.01); **C10M 169/04** (2006.01); **C10N 10/04** (2006.01); **C10N 30/00** (2006.01); **C10N 30/04** (2006.01); **C10N 40/25** (2006.01); **C10N 40/26** (2006.01); **C10N 60/14** (2006.01)

CPC (source: EP US)

C10M 101/02 (2013.01 - US); **C10M 143/06** (2013.01 - US); **C10M 149/06** (2013.01 - US); **C10M 163/00** (2013.01 - EP US); **C10M 169/045** (2013.01 - EP US); **C10M 2201/085** (2013.01 - EP US); **C10M 2207/026** (2013.01 - EP US); **C10M 2207/028** (2013.01 - EP US); **C10M 2207/127** (2013.01 - EP US); **C10M 2207/129** (2013.01 - EP US); **C10M 2207/262** (2013.01 - EP US); **C10M 2209/105** (2013.01 - EP US); **C10M 2215/06** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2217/043** (2013.01 - EP US); **C10M 2219/022** (2013.01 - EP US); **C10M 2219/046** (2013.01 - EP US); **C10M 2223/049** (2013.01 - EP US); **C10M 2227/061** (2013.01 - EP US); **C10M 2227/065** (2013.01 - EP US); **C10M 2229/041** (2013.01 - EP US); **C10N 2010/04** (2013.01 - US); **C10N 2010/08** (2013.01 - US); **C10N 2030/04** (2013.01 - EP US); **C10N 2030/40** (2020.05 - EP US); **C10N 2030/42** (2020.05 - EP US); **C10N 2030/45** (2020.05 - EP US); **C10N 2030/52** (2020.05 - EP US); **C10N 2040/25** (2013.01 - EP US); **C10N 2040/252** (2020.05 - EP US); **C10N 2040/255** (2020.05 - EP US); **C10N 2060/14** (2013.01 - EP US)

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