

Title (en)

Lubricant composition for air-cooled two-stroke cycle engines

Title (de)

Schmiermittelzusammensetzung für luftgekühlte Zweitakt-Brennkraftmaschinen

Title (fr)

Composition lubrifiante pour moteurs à deux temps refroidis par air

Publication

EP 1138753 A3 20020522 (EN)

Application

EP 01302619 A 20010321

Priority

US 54067000 A 20000331

Abstract (en)

[origin: EP1138753A2] A lubricating oil composition used in air-cooled two-stroke cycle engines having a Mannich detergent and an ashless dispersant, wherein the ratio of the Mannich detergent to ashless dispersant is from 3:1 to 5:1. The detergency additive may also contain at least one of the following compounds: molybdenum, an overbased alkyl oxy benzene sulfonate and an alkylsalicylate. The detergency additive of the present invention provides improved detergency when used in a lubricating oil composition for air-cooled two-stroke cycle engines.

IPC 1-7

C10M 163/00

IPC 8 full level

C10M 105/04 (2006.01); **C10M 105/06** (2006.01); **C10M 125/22** (2006.01); **C10M 129/54** (2006.01); **C10M 133/18** (2006.01); **C10M 133/56** (2006.01); **C10M 137/10** (2006.01); **C10M 143/06** (2006.01); **C10M 159/16** (2006.01); **C10M 159/24** (2006.01); **C10M 163/00** (2006.01); **C10N 10/04** (2006.01); **C10N 10/12** (2006.01); **C10N 20/00** (2006.01); **C10N 30/04** (2006.01); **C10N 40/26** (2006.01)

CPC (source: EP)

C10M 163/00 (2013.01); **C10M 2201/066** (2013.01); **C10M 2205/026** (2013.01); **C10M 2207/262** (2013.01); **C10M 2215/28** (2013.01); **C10M 2217/043** (2013.01); **C10M 2219/046** (2013.01); **C10N 2010/04** (2013.01); **C10N 2010/12** (2013.01); **C10N 2030/04** (2013.01); **C10N 2030/52** (2020.05); **C10N 2040/26** (2013.01); **C10N 2070/02** (2020.05)

Citation (search report)

- [X] US 5370805 A 19941206 - SMRCKA NANCY K [US], et al
- [X] US 5114603 A 19920519 - KENNEDY STEVEN [US], et al
- [Y] EP 0957153 A1 19991117 - CHEVRON CHEM SA [FR]
- [Y] US 5789356 A 19980804 - TIFFANY III GEORGE MORTIMER [US]
- [YD] WO 9221736 A1 19921210 - LUBRIZOL CORP [US]
- [Y] EP 0454380 A1 19911030 - ETHYL PETROLEUM ADDITIVES INC [US]
- [YD] US 4088586 A 19780509 - WILGUS DONOVAN R, et al

Cited by

EP1531150A1; CN108546583A; CN102037109A; EP1752518A1; EP2292722A1; CN105950262A; US2014130759A1; CN103857775A; US7585820B2; WO2013006303A1; US10822571B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1138753 A2 20011004; **EP 1138753 A3 20020522**; CA 2341924 A1 20010928; CA 2341924 C 20110607; JP 2001294884 A 20011023; JP 5165822 B2 20130321; SG 85234 A1 20011219

DOCDB simple family (application)

EP 01302619 A 20010321; CA 2341924 A 20010321; JP 2001103148 A 20010402; SG 200101850 A 20010323