

Title (en)  
BIODEGRADABLE LUBRICATING OIL COMPOSITION

Title (de)  
BIOLOGISCH ABBAUBARE SCHMIERÖLZUSAMMENSETZUNG

Title (fr)  
COMPOSITION D'HUILE DE LUBRIFICATION BIODÉBRADABLE

Publication  
**EP 1707617 B1 20170315 (EN)**

Application  
**EP 05709443 A 20050128**

Priority  
• JP 2005001216 W 20050128  
• JP 2004024291 A 20040130

Abstract (en)  
[origin: EP1707617A1] [PROBLEMS] To provide a biodegradable lubricating oil composition which has excellent biodegradability, a high viscosity index, a low pour point, a high flash point, being satisfactory with lubricity, oxidative stability, property of preventing the corrosion of iron and non-ferrous metals, and suitability for use with sealing materials. [MEANS FOR SOLVING THE PROBLEMS] A biodegradable lubricating oil composition comprising (A) a synthetic ester base oil comprising at least 50 mass% hindered ester of an aliphatic monocarboxylic acid with an aliphatic hindered polyol which has one or more quaternary carbon atoms per molecule and in which at least one of the quaternary carbon atoms has one to four methylol groups bonded thereto and (B) ingredients which are (a) 0.1 to 5.0 mass% phenolic antioxidant, (b) 0.01 to 2.0 mass% calcium sulfonate having a low base number, and (c) 0.01 to 1.0 mass% triazole compound, and has the degree of biodegradation of 60 % or higher when examined by the test for the degree of microbial degradation of chemical substances according to the OECD Test Guideline 301C method.

IPC 8 full level  
**C10M 169/04** (2006.01); **C10M 105/34** (2006.01); **C10M 105/38** (2006.01); **C10M 105/40** (2006.01); **C10M 129/10** (2006.01); **C10M 129/76** (2006.01); **C10M 133/38** (2006.01); **C10M 133/44** (2006.01); **C10M 135/10** (2006.01); **C10M 159/24** (2006.01); **C10N 10/04** (2006.01); **C10N 20/00** (2006.01); **C10N 20/02** (2006.01); **C10N 30/00** (2006.01); **C10N 30/02** (2006.01); **C10N 30/06** (2006.01); **C10N 30/08** (2006.01); **C10N 30/10** (2006.01); **C10N 30/12** (2006.01); **C10N 40/04** (2006.01); **C10N 40/08** (2006.01); **C10N 40/20** (2006.01); **C10N 40/26** (2006.01)

CPC (source: EP US)  
**C10M 129/10** (2013.01 - US); **C10M 133/44** (2013.01 - US); **C10M 135/10** (2013.01 - US); **C10M 169/04** (2013.01 - EP US); **C10M 2207/0225** (2013.01 - EP US); **C10M 2207/026** (2013.01 - EP US); **C10M 2207/2835** (2013.01 - EP US); **C10M 2207/289** (2013.01 - EP US); **C10M 2207/2895** (2013.01 - EP US); **C10M 2215/223** (2013.01 - EP US); **C10M 2219/044** (2013.01 - EP US); **C10M 2219/046** (2013.01 - EP US); **C10N 2010/04** (2013.01 - EP US); **C10N 2020/081** (2020.05 - EP US); **C10N 2030/02** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2030/08** (2013.01 - EP US); **C10N 2030/10** (2013.01 - EP US); **C10N 2030/12** (2013.01 - EP US); **C10N 2030/64** (2020.05 - EP US); **C10N 2040/04** (2013.01 - EP US); **C10N 2040/042** (2020.05 - EP US); **C10N 2040/044** (2020.05 - EP US); **C10N 2040/08** (2013.01 - EP US); **C10N 2040/20** (2013.01 - EP US); **C10N 2040/22** (2013.01 - EP US); **C10N 2040/25** (2013.01 - EP US)

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