

Title (en)
LUBRICANT COMPOSITION

Title (de)
SCHMIERSTOFFZUSAMMENSETZUNG

Title (fr)
COMPOSITION LUBRIFIANTE

Publication
EP 2223992 A4 20140910 (EN)

Application
EP 08841541 A 20081017

Priority
• JP 2008068860 W 20081017
• JP 2007274080 A 20071022

Abstract (en)
[origin: EP2223992A1] A lubricating oil composition is used in an internal combustion engine that uses a fuel containing at least one fat and oil selected from a group consisting of natural fat and oil, hydrotreated natural fat and oil, transesterified natural fat and oil and hydrotreated transesterified natural fat and oil. A polyol ester having a kinematic viscosity in the range of 3 to 8 mm²/s at 100 degrees C and/or a polybasic acid ester having a kinematic viscosity in the range of 3 to 8 mm²/s at 100 degrees C is mixed in an amount in the range of 5 to 30 mass% of a total amount of the lubricating oil composition as a base oil of lubricating oil.

IPC 8 full level
C10M 105/32 (2006.01); **C10M 105/36** (2006.01); **C10M 105/38** (2006.01); **C10M 129/10** (2006.01); **C10M 129/70** (2006.01); **C10M 133/04** (2006.01); **C10M 135/10** (2006.01); **C10M 139/00** (2006.01); **C10M 159/22** (2006.01); **C10M 159/24** (2006.01); **C10M 169/04** (2006.01); **C10N 10/04** (2006.01); **C10N 20/00** (2006.01); **C10N 20/02** (2006.01); **C10N 20/04** (2006.01); **C10N 30/04** (2006.01); **C10N 30/06** (2006.01); **C10N 40/25** (2006.01)

CPC (source: EP US)
C10M 105/36 (2013.01 - EP US); **C10M 105/38** (2013.01 - EP US); **C10M 169/04** (2013.01 - EP US); **C10M 2203/1006** (2013.01 - EP US); **C10M 2205/0285** (2013.01 - EP US); **C10M 2207/262** (2013.01 - EP US); **C10M 2207/2825** (2013.01 - EP US); **C10M 2207/2835** (2013.01 - EP US); **C10M 2207/289** (2013.01 - EP US); **C10M 2209/084** (2013.01 - EP US); **C10M 2215/064** (2013.01 - EP US); **C10M 2215/223** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2223/045** (2013.01 - EP US); **C10N 2020/02** (2013.01 - EP US); **C10N 2020/04** (2013.01 - EP US); **C10N 2030/041** (2020.05 - EP US); **C10N 2030/08** (2013.01 - EP US); **C10N 2030/40** (2020.05 - EP US); **C10N 2030/42** (2020.05 - EP US); **C10N 2030/43** (2020.05 - EP US); **C10N 2030/45** (2020.05 - EP US); **C10N 2030/74** (2020.05 - EP US); **C10N 2030/78** (2020.05 - EP US); **C10N 2040/25** (2013.01 - EP US); **C10N 2040/252** (2020.05 - EP US)

Citation (search report)
• [XY] EP 1522571 A1 20050413 - CHEVRON ORONITE CO [US]
• [XY] EP 1688476 A1 20060809 - CHEVRON ORONITE CO [US]
• [XY] EP 1266954 A1 20021218 - INFINEUM INT LTD [GB]
• [A] WO 2007050451 A2 20070503 - CHEVRON USA INC [US], et al
• See references of WO 2009054322A1

Cited by
EP2055761A2; EP2141220A4; EP2483378A4; US8349775B2; WO2020023430A1

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