

Title (en)  
Lubricating Oil Composition

Title (de)  
Schmierölsammensetzung

Title (fr)  
Composition d'huile lubrifiante

Publication  
**EP 1632553 A1 20060308 (EN)**

Application  
**EP 05106999 A 20050728**

Priority  
• EP 04255398 A 20040906  
• EP 05106999 A 20050728

Abstract (en)  
A low SAPS lubricating oil composition exhibiting excellent piston cleanliness having up to 0.3 wt.% sulfur, up to 0.08 wt.% phosphorus, and a sulfated ash content up to 0.80 wt.% comprising an overbased alkali metal or alkaline earth metal alkyl salicylate detergent having a low soap content.

IPC 8 full level  
**C10M 163/00** (2006.01)

CPC (source: EP)  
**C10M 163/00** (2013.01); **C10M 2207/026** (2013.01); **C10M 2207/262** (2013.01); **C10M 2207/289** (2013.01); **C10M 2215/064** (2013.01); **C10M 2215/28** (2013.01); **C10M 2219/068** (2013.01); **C10M 2223/045** (2013.01); **C10N 2030/04** (2013.01); **C10N 2030/42** (2020.05); **C10N 2030/43** (2020.05); **C10N 2030/45** (2020.05)

Citation (applicant)  
• EP 1167497 A2 20020102 - CHEVRON ORONITE JAPAN LTD [JP]  
• US 4152499 A 19790501 - BOERZEL PAUL [DE], et al  
• US 4867890 A 19890919 - COLCLOUGH TERENCE [GB], et al  
• US 4938880 A 19900703 - WADDOUPS MALCOLM [US], et al  
• "INDUSTRY SERVICES DEPARTMENT", December 1996, AMERICAN PETROLEUM INSTITUTE (API) PUBLICATION, article "Engine Oil Licensing and Certification System"

Citation (search report)  
• [X] EP 1167497 A2 20020102 - CHEVRON ORONITE JAPAN LTD [JP]  
• [X] US 2003096716 A1 20030522 - LOCKE CHRISTOPHER J [GB], et al  
• [X] EP 1338643 A1 20030827 - INFINEUM INT LTD [GB]  
• [A] US 2003158048 A1 20030821 - FARNG LIEHPAO O [US], et al  
• [A] US 6583092 B1 20030624 - CARRICK VIRGINIA A [US], et al

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US8680030B2; WO2007061698A3; WO2007061699A3

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

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