

Title (en)  
ULTRA-LOW SAPS LUBRICANTS FOR INTERNAL COMBUSTION ENGINES

Title (de)  
SCHMIERMITTEL MIT ULTRANIEDRIGER AUSLAUGUNG FÜR VERBRENNUNGSMOTOREN

Title (fr)  
LUBRIFIANTS À ULTRA FAIBLE TENEUR EN CENDRES SULFATÉES, PHOSPHORE ET SOUFRE POUR DES MOTEURS À COMBUSTION INTERNE

Publication  
**EP 2938713 A4 20160127 (EN)**

Application  
**EP 13867703 A 20131122**

Priority  
• US 201213729465 A 20121228  
• US 2013071503 W 20131122

Abstract (en)  
[origin: US2014187455A1] Disclosed is an ultra-low SAPS lubricating oil composition comprising: an oil of lubricating viscosity; an aromatic dicarboxylic acid treated dispersant supplying at least 0.30 wt % of the aromatic dicarboxylic acid to said lubricating oil composition; an ashless peroxide decomposer present at a treat rate of from about 0.4 to 5.0 wt %; a metal deactivator wherein the metal deactivator is present at a treat rate of greater than 0.08 wt %; wherein said lubricating oil composition contains less than 1000 ppm sulfur, less than 300 ppm phosphorus and less than 0.25 wt % sulfated ash.

IPC 8 full level  
**C10M 129/34** (2006.01); **C10M 141/12** (2006.01); **C10N 30/10** (2006.01); **C10N 30/12** (2006.01); **C10N 40/25** (2006.01); **C10N 60/00** (2006.01)

CPC (source: EP US)  
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Citation (search report)  
• [AD] US 3287271 A 19661122 - STUART FRANK A, et al  
• [AD] US 2003224948 A1 20031204 - DAM WILLEM VAN [US], et al  
• [A] US 2008188386 A1 20080807 - BURRINGTON JAMES D [US], et al  
• [A] WO 2008027883 A2 20080306 - LUBRIZOL CORP [US], et al  
• See references of WO 2014105311A2

Designated contracting state (EPC)  
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Designated extension state (EPC)  
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DOCDB simple family (publication)  
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DOCDB simple family (application)  
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