

Title (en)  
LUBRICANT COMPOSITION FOR AN INTERNAL COMBUSTION ENGINE

Title (de)  
SCHMIERMITTELZUSAMMENSETZUNG FÜR EINEN VERBRENNUNGSMOTOR

Title (fr)  
COMPOSITION LUBRIFIANTE POUR UN MOTEUR À COMBUSTION INTERNE

Publication  
**EP 2554641 A4 20131009 (EN)**

Application  
**EP 11765779 A 20110331**

Priority  
• JP 2010086581 A 20100402  
• JP 2011058291 W 20110331

Abstract (en)  
[origin: EP2554641A1] A lubricating oil composition for an internal combustion engine contains a component (A) of a polyalphaolefin having a kinematic viscosity at 100 degrees C of 5.5 mm<sup>2</sup>/s or less, a CCS viscosity at -35 degrees C of 3000 mPA·s or less and a NOACK of 12 mass% or less, and a component (B) of a mineral oil having a viscosity index of 120 or more. The component (A) is contained at a content of 25 mass% or more of a total amount of the composition.

IPC 8 full level  
**C10M 111/04** (2006.01); **C10N 20/00** (2006.01); **C10N 20/02** (2006.01); **C10N 30/00** (2006.01); **C10N 30/02** (2006.01); **C10N 30/08** (2006.01); **C10N 40/25** (2006.01)

CPC (source: EP KR US)  
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Citation (search report)  
• [I] WO 2009073135 A1 20090611 - INEOS USA LLC [US], et al  
• [X] US 2006211581 A1 20060921 - BULLOCK CHARLES L JR [US], et al & JP 2008533274 A 20080821  
• [X] US 2008234153 A1 20080925 - MATSUI SHIGEKI [JP] & JP 2008231189 A 20081002 - NIPPON OIL CORP & JP 2008231190 A 20081002 - NIPPON OIL CORP  
• [A] "DURASYN 145 POLYALPHAOLEFINS", 20 May 2009 (2009-05-20), XP055076930, Retrieved from the Internet <URL:http://www.3eonline.com/ImageServer/NewPdf/1915fa5c98f54dd299ab2ac018d2ea1e.pdf> [retrieved on 20130828]  
• See references of WO 2011125879A1

Cited by  
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