

Title (en)  
Lubricating oil compositions

Title (de)  
Schmierölsammensetzungen

Title (fr)  
Composiitons d'huile lubrifiante

Publication  
**EP 1803793 B1 20150617 (EN)**

Application  
**EP 06122380 A 20061016**

Priority  
• EP 05113044 A 20051228  
• EP 06122380 A 20061016

Abstract (en)  
[origin: EP1803793A1] A lubricating oil composition for internal combustion engines, particularly heavy duty diesel (HDD) engines, having reduced phosphorus, sulfur and sulfated ash contents that provide excellent piston cleanliness performance and contain an amount of phenate detergent that introduces a relatively large amount of phenate soap into the lubricating oil composition.

IPC 8 full level  
**C10M 159/20** (2006.01); **C10M 159/22** (2006.01); **C10M 159/24** (2006.01); **C10M 167/00** (2006.01); **C10N 10/02** (2006.01); **C10N 10/12** (2006.01); **C10N 30/04** (2006.01); **C10N 40/25** (2006.01)

CPC (source: EP)  
**C10M 159/20** (2013.01); **C10M 159/22** (2013.01); **C10M 159/24** (2013.01); **C10M 167/00** (2013.01); **C10M 2207/027** (2013.01); **C10M 2207/028** (2013.01); **C10M 2219/046** (2013.01); **C10M 2219/088** (2013.01); **C10M 2219/089** (2013.01); **C10M 2223/045** (2013.01); **C10N 2010/04** (2013.01); **C10N 2010/12** (2013.01); **C10N 2030/04** (2013.01); **C10N 2030/42** (2020.05); **C10N 2030/43** (2020.05); **C10N 2030/45** (2020.05); **C10N 2040/252** (2020.05)

Cited by  
EP3109299B1

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

DOCDB simple family (publication)  
**EP 1803793 A1 20070704; EP 1803793 B1 20150617**

DOCDB simple family (application)  
**EP 06122380 A 20061016**