

Title (en)
Lubricating oil additive concentrates

Title (de)
Additivkonzentrate für Schmiermittel

Title (fr)
Concentrés d'additifs de lubrifiants

Publication
EP 1657292 B1 20190515 (EN)

Application
EP 05110044 A 20051026

Priority
• EP 04257106 A 20041116
• EP 05110044 A 20051026

Abstract (en)
[origin: EP1657292A1] Lubricating oil additive concentrates containing oil of lubricating viscosity, at least one basic metal complex, an oil-soluble hydrocarbyl phenol aldehyde condensate, and an organic friction modifier containing at least one hydroxyl and/or amino group.

IPC 8 full level
C10M 163/00 (2006.01); **C10M 169/04** (2006.01)

CPC (source: EP)
C10M 163/00 (2013.01); **C10M 169/045** (2013.01); **C10M 2207/024** (2013.01); **C10M 2207/028** (2013.01); **C10M 2207/26** (2013.01); **C10M 2207/262** (2013.01); **C10M 2207/282** (2013.01); **C10M 2207/283** (2013.01); **C10M 2215/042** (2013.01); **C10M 2215/225** (2013.01); **C10M 2219/046** (2013.01); **C10N 2010/04** (2013.01); **C10N 2030/00** (2013.01); **C10N 2040/25** (2013.01)

Citation (examination)
EP 0389237 A2 19900926 - ETHYL PETROLEUM ADDITIVES LTD [GB]

Cited by
GB2498635A; WO2010124859A1; US9528067B2; WO2011066141A3; US9163196B2; US9175241B2; US9193934B2; US10190071B2

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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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