

Title (en)
Lubricating oil composition containing detergent additives

Title (de)
Detergensadditive enthaltende Schmierölzusammensetzung

Title (fr)
Composition d'huile lubrifiante contenant des additifs détergents

Publication
EP 1889896 A3 20080910 (EN)

Application
EP 07111837 A 20070705

Priority
• US 50073006 A 20060808
• US 77289607 A 20070703

Abstract (en)
[origin: EP1889896A2] A lubricating oil composition having a total base number of more than 15 mg KOH/g, as determined by ASTM D2896, and including at least 40 mass % of an oil of lubricating viscosity; at least one detergent; and at least one compound of the formula (I) and/or formula (II): In formula (I), each Ar independently represents an aromatic moiety having 0 to 3 substituents selected from the group consisting of alkyl, alkoxy, alkoxyalkyl, aryloxy, aryloxyalkyl, hydroxy, hydroxyalkyl, halo and combinations thereof; each L is independently a linking moiety comprising a carbon-carbon single bond or a linking group; each Y is independently -OR¹ or a moiety of the formula H(O(CR¹ 2) n) y X-, wherein X is selected from the group consisting of (CR¹ 2) z , O and S; R¹ and R¹ are each independently selected from H, C 1 to C 6 alkyl and aryl; R¹ is selected from C 1 to C 100 alkyl and aryl; z is 1 to 10; n is 0 to 10 when X is (CR¹ 2) z , and 2 to 10 when X is O or S; and y is 1 to 30; each a is independently 0 to 3, with the proviso that at least one Ar moiety bears at least one group Y; and m is 1 to 100. In formula (II), each Ar' independently represents an aromatic moiety having 0 to 3 substituents selected from the group consisting of alkyl, alkoxy, alkoxyalkyl, hydroxy, hydroxyalkyl, acyloxy, acyloxyalkyl, aryloxy, aryloxy alkyl, halo and combinations thereof; each L' is independently a linking moiety comprising a carbon-carbon single bond or a linking group; each Y' is independently a moiety of the formula Z(O(CR² 2) n') y' X'-, wherein X' is selected from the group consisting of (CR² 2) z' , O and S; R² and R² are each independently selected from H, C 1 to C 6 alkyl and aryl; z' is 1 to 10; n' is 0 to 10 when X' is (CR² 2) z' , and 2 to 10 when X' is O or S; y' is 1 to 30; Z is H, an acyl group, an alkyl group or an aryl group; each a' is independently 0 to 3, with the proviso that at least one Ar' moiety bears at least one group Y' in which Z is not H; and m' is 1 to 100.

IPC 8 full level
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CPC (source: EP)
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Citation (search report)
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• [Y] EP 1605034 A1 20051214 - INFINEUM INT LTD [GB]
• [PY] EP 1767611 A2 20070328 - CLARIANT PRODUKTE DEUTSCHLAND [DE]
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