

Title (en)

Lubricating oils having carbonated sulfurized metal alkyl phenates and carbonated metal alkyl aryl sulfonates

Title (de)

Schmieröle enthaltend carbonisierte und sulfonierte Metallsalze von Alkylphenolen und carbonisierte Metallsalze von Alkylarylsulfonsäuren

Title (fr)

Huiles lubrifiantes comprenant des sels métalliques carbonatés alcoylphénols sulfurés et des sels métalliques carbonatés d'acides alcoylarylsulfoniques

Publication

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Application

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Priority

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Abstract (en)

[origin: EP0765931A1] A lubricating oil composition has a major amount of an oil of lubricating viscosity, a minor amount of a carbonated sulfurized metal alkyl phenate and, a minor amount of a carbonated metal alkyl aryl sulfonate. The total base equivalents donated by the phenate is more than 85% of the total base equivalents donated by the phenate and sulfonate. The composition also has alkenyl or alkyl succinimide additives that are the reaction product of a high molecular weight alkenyl- or alkyl-substituted succinic anhydride and a polyalkylene polyamine having an average of greater than four nitrogen atoms per mole, wherein the reaction product is post-treated with a cyclic carbonate.

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Cited by

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