

## 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

**EP 0765931 A1 19970402 (EN)**

## Application

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## Priority

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## Abstract (en)

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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## Citation (search report)

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