

Title (en)

Lubricating compositions with improved oxidation resistance containing a dispersant and an antioxidant.

Title (de)

Schmiermittelzusammensetzungen mit hoher Oxidationsbeständigkeit die ein Dispergiermittel und ein Antioxidant enthalten.

Title (fr)

Des compositions lubrifiantes ayant une résistance à l'oxidation améliorée contenant un agent dispersant et un antioxydant.

Publication

EP 0678569 A3 19960403 (EN)

Application

EP 95302545 A 19950418

Priority

US 22948894 A 19940419

Abstract (en)

[origin: EP0678569A2] This invention relates to a lubricating composition comprising a major amount of an oil of lubricating viscosity with an iodine number less than about 9, (A) one or more antioxidant, and (B) from about 0.01% to about 3% by weight of at least one dispersant or detergent, wherein the total amount of antioxidant is at least about 2% by weight. The additives are useful act controlling oxidation of lubricants. Further, these lubricants have reduced viscosity increase caused by oxidation, while maintaining favorable carbon/varnish ratings.

IPC 1-7

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IPC 8 full level

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Citation (search report)

- [X] WO 8604601 A1 19860814 - LUBRIZOL CORP [US]
- [X] WO 9113133 A2 19910905 - LUBRIZOL CORP [US]
- [X] GB 1042635 A 19660914 - ETHYL CORP [US]
- [PX] EP 0609623 A1 19940810 - ORONITE JAPAN LIMITED [JP]
- [X] EP 0391651 A2 19901010 - EXXON CHEMICAL PATENTS INC [US]
- [X] WO 8705622 A1 19870924 - LUBRIZOL CORP [US]

Cited by

EP0764714A1; EP0764715A1; EP0758016A1; US5840662A; EP0790294A3; US5883057A; US5972854A; EP0786511A3; EP0812900A3; US8168572B2; WO2004046284A1; WO2020038737A1; US11248188B2; EP0712923B1; US7871965B2; US8389449B2; US8536102B2; US9115237B2; WO9714772A1; WO2014014561A1

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