

Title (en)

ANTINOXIDANT SLUDGE CONTROL ADDITIVES

Title (de)

ANTIOXIDATIONSZUSATZE ZUR KONTROLLE VON SCHLAMMBILDUNG

Title (fr)

ADDITIFS ANTINOXYDANTS DE TRAITEMENT DE DEPOT DE BOUE ET D'IMPURETES

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Application

EP 96937847 A 19961030

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Abstract (en)

[origin: WO9716510A1] The invention relates to a process for mitigating NOx-induced sludge formation in engine oils by dissolving in an engine oil of lubricating viscosity an effective amount of a molecule having at least one head portion enriched in NOx reactive carbon-carbon unsaturation and at least one oil soluble hydrocarbonyl, preferably aliphatic, tail portion having an absence of carbon-carbon unsaturation of suitable chain length in an optimum ratio of head to tail sufficient to reduce NOx-induced sludge formation in the engine oil. The invention also relates to formulated lube oil compositions containing the antioxidant additive. The molecules include polyethylene propylene copolymer- and polyisobutylene-grafted hydroquinone polyalkylthiophenes, fullerene-grafted lube oil basestock, ethylene propylene polymer-grafted phenol and ethylene butylene polymer-grafted phenol.

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