

Title (en)

An upper internal combustion engine cleaning composition

Title (de)

Reinigungszusammensetzung für den Oberteil eines Verbrennungsmotors.

Title (fr)

Composition de nettoyage de la partie supérieure d'un moteur à combustion interne.

Publication

EP 2138557 A1 20091230 (EN)

Application

EP 08015093 A 20080827

Priority

MX 2008007886 A 20080618

Abstract (en)

For decades the slow accretion of carbonaceous deposits on the upper cylinder areas of the internal combustion engines has acted to impair optimum performance and to significantly reduce gasoline or Diesel mileage per gallon. It has now been discovered that these formerly rather intractable engine deposits can be efficiently removed by dispersing and dissolving them through the use of optimized mixtures of polar protic and dipolar aprotic solvents that have the essential capability of acting in concert synergistically. For practical reasons these solvents must have a melting point higher than about 41 °F (5 °C). The finished product must also have a dielectric constant of about 20 and a pH value of at least 11.0 at 77 °F (25 °C). These parameters are considered vital to success. For example, in a test using a blend with a dielectric constant of 15, the removal of the carbonaceous deposits was either de minimus or very limited, even at pH values of 12.0 at 77 °F (25 °C) or higher. However, at a dielectric constant of 20 the degree of removal was quite satisfactory. Preferred compositions of this invention may be utilized in the form of self pressurized (aerosol) dispensers.

IPC 8 full level

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Citation (applicant)

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