

Title (en)

IMPROVED FUEL COMPOSITION FOR MULTI-PORT FUEL INJECTION SYSTEMS, AND USE THEREOF

Publication

EP 0237356 B1 19920102 (EN)

Application

EP 87302162 A 19870313

Priority

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- US 85860386 A 19860501

Abstract (en)

[origin: EP0237356A2] An additive package, a fuel composition including the additive package and a method for reducing and/or preventing injector fouling in a multi-port fuel injection means utilizing the fuel composition are described. The additive package comprises a particularly described amine and a particularly described demulsifier. A particularly preferred composition comprises an amine, an amine oxide and a demulsifier. The fuel composition prevents and/or reduces fouling of the fuel injector means.

[origin: EP0237356A2] Fouling in a multi-port, electronically controlled fuel injection system is reduced and/or prevented by using a fuel contg. a tert. amine of formula NR₁R₂R₃ (I), where R₁ is a 6-24C alkyl, aryl, cycloalkiphatic, heterocyclic, substd. alkyl or substd. aryl gp., and R₂ and R₃ are 1-24C substd. alkyl, aryl, cycloaliphatic or heterocyclic gps. Also claimed are fuels contg. (I) and a demulsifier (II), and fuels contg. (I) and an amino oxide antifouling agent (III). Pref. the fuel is gasoline (esp. unleaded). (I) is of formula R'₁N(CH₂CH₂OH)₂, where R'₁ = coco alkyl, tallow alkyl, stearyl or oleyl. (II) is an acylated polyglycol (e.g. 'Tolad T-284'), a mixt. of alkylaryl sulphonate, polyglycol and oxyalkylated alkylphenol-formaldehyde resin (e.g. 'Tolad T-286'), a mixt. of oxyalkylated alkylphenol-formaldehyde resin and polyglycol (e.g. 'Tolad T-326') or an oxyalkylated alkylphenol-formaldehyde resin (e.g. 'Tolad T-500' or 'Nalco 5455'). (III) is of formula R₄R₅R₆N-O, where R₄-R₆ are as defined for R₁-R₃.

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IPC 8 full level

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CPC (source: EP KR)

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