

FUEL ADDITIVE MIXTURE PROVIDING RAPID INJECTOR CLEAN-UP IN HIGH PRESSURE GASOLINE ENGINES

ABSTRACT

The present disclosure relates to methods and fuel compositions for reducing or eliminating fuel injector deposits in high pressure gasoline engines. The fuel compositions include gasoline and a synergistic combination of a fuel injector clean-up mixture including a heterocyclic amine, diamine, or open chain derivative thereof and a hydrocarbyl substituted dicarboxylic anhydride derivative selected from a diamide, acid/amide, acid/ester, diacid, amide/ester, diester, and imide.

[Figure 1]