ABSTRACT

Method of Limiting Chemical Degradation due to Nitrogen Dioxide Contamination

An additive composition for limiting the chemical degradation of hydrocarbonaceous liquids due to nitrogen dioxide contamination at elevated temperature comprises the combination of an ionic liquid composed of a cation and a boron- and halogen-free, multi-functional anion and a detergent additive, the combination of ionic liquid and detergent serving to inhibit the nitration of hydrocarbonaceous liquid components that initiates degradation.

Figure 1