

ADDITIVES FOR MINIMIZING INTAKE VALVE DEPOSITS, AND THEIR USE**Abstract of the Disclosure**

New, highly effective detergent/dispersants for use in spark ignition fuels are described. They are Mannich condensation products formed from (i) one mole part of hydroxyaromatic compound having on the ring an aliphatic hydrocarbyl substituent derived from a polyolefin having a number average molecular weight in the range of about 500 to about 3000, (ii) from 0.8 to 1.5 mole part(s) of aliphatic polyamine having one and only one primary or secondary amino group in the molecule capable of participating in the Mannich condensation reaction, and (iii) from 0.8 to 1.3 mole part(s) of aldehyde, provided that the mole ratio of aldehyde to amine is 1.2 or less. Carrier fluids such as poly(oxyalkylene) compounds further enhance the effectiveness of these Mannich condensation products in minimizing or reducing intake valve deposits and/or intake valve sticking.

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