

Title (en)
SYNTHETIC LUBE COMPOSITION AND PROCESS

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Application
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Abstract (en)
[origin: WO9010050A1] The thermal stability of synthetic lubricants composed of alpha-olefin oligomers is improved by reaction with an olefin such as decene or the lower molecular weight, non-lubricant range olefins produced in the course of the oligomerization of 1-alkenes. The alkylation of the lube range oligomer is carried out using acidic alkylation catalyst such as solid, open-pore catalyst, e.g., fluorided alumina. The improved lubricant compositions of the present invention comprise a high viscosity index liquid lubricant oligomer composition containing C30-C1300 hydrocarbons with at least one higher alkyl branch per oligomer molecule, the alkyl branch containing between 12 and 40 carbon atoms. In a preferred embodiment the novel alkylated lubricant composition has a methyl to methylene branch ratio of less than 0.19 and pour point below -15 DEG C.

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