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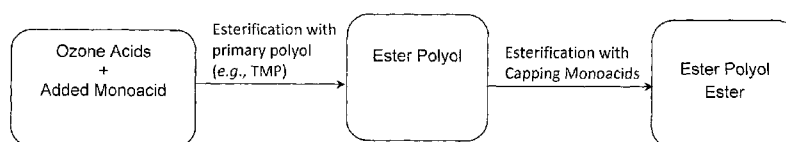
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(54) Title: LUBRICANT COMPOSITION OF MATTER AND METHODS OF PREPARATION

Two-Step Conversion of Ozone Acids to Ester Polyol Esters for Lubricant Base Oil

(57) Abstract: Ester polyol esters are a unique class of lubricants that have adjustable molecular weights, viscosities, and pour points based on the character of their reaction materials and relative ratios. There is provided a method for preparing at least one ester polyol ester, the method comprising esterifying an ester polyol reaction mixture to produce ester polyol, the reaction mixture comprising an ozone acid mixture and at least one primary polyol, wherein the ozone acid mixture comprises at least one dicarboxylic acid and at least one monocarboxylic acid; and capping the ester polyol with at least one capping carboxylic acid to produce ester polyol ester.