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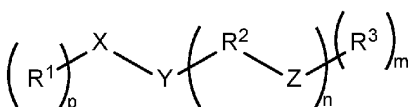
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(54) Title: ALKYL PHENOL BASED POLYETHER DERIVED COMPOUNDS AS LUBRICANT ADDITIVES



(57) Abstract: This disclosure describes a lubricating oil composition. The composition includes a major amount of base oil; and a lubricant additive having the following structure: where each R^1 is independently a hydrocarbyl group having 10 to 400 carbons; X is an alkyl, aryl, or heteroaromatic group having 1 to 10 carbons; Y is nitrogen, oxygen, or sulfur; R^2 is independently a hydrocarbyl group having 1 to 9 carbons; each Z is nitrogen, oxygen, or sulfur; and R^3 is a hydrocarbyl group having 1 to 9 carbons with one or more nitrogen, oxygen, or sulfur functionalization, where p is 1 to 3, n is 1 to 20, and m is 1 to 3.

WO 2025/101799 A1