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(54) Title: ZINC FREE LUBRICATING COMPOSITIONS AND METHODS OF USING THE SAME

(57) Abstract: The instant disclosure generally relates to lubricating compositions having an oil of lubricating viscosity, an ashless phosphorus-containing antiwear agent an alkaline earth metal detergent, an ashless antioxidant, and an ashless dispersant where the lubricating compositions are substantially free of zinc and methods of lubricating an engine with such lubricating compositions. The instant lubricating compositions are useful as alternative lubricating compositions the reduce and/or eliminate zinc to achieve a desired performance goal of the lubricating composition.

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