LUBRICANT FORMULATIONS WITH SILICON-CONTAINING COMPOUNDS

ABSTRACT

A lubricating oil composition including a major amount of a base oil, one or more calcium-containing detergents to provide at least 1000 ppmw of calcium, and one or more silicon-containing compound(s) to provide at least 50 ppmw of silicon to the lubricating oil composition, all based on the total weight of the lubricating oil composition, wherein a ratio of ppmw of silicon provided by the one or more silicon-containing compound(s) to the lubricating oil composition to the ppmw of calcium provided by the one or more calcium-containing detergent(s) to the lubricating oil composition is from 0.02 to 1. Methods of using these compositions and silicon-containing detergents are also described.

[Fig. 1]