

LUBRICATING OIL COMPOSITIONS FOR CONSTRUCTION MACHINES

ABSTRACT

The present invention is directed to a Zinc-free transmission oil composition for construction machinery comprising:

- (i) a major amount of an oil of lubricating viscosity,
- (ii) at least 0.25 wt. % of a dithiophosphorylated carboxylic acid compound, and
- (iii) a succinimide dispersant derived from a polyisobutylene group of 1200 molecular weight or less.

Also provided is a method for lubricating the transmission of a construction machine comprising lubricating the transmission with a Zinc-free transmission oil composition comprising:

- (i) a major amount of an oil of lubricating viscosity,
- (ii) at least 0.25 wt. % of a dithiophosphorylated carboxylic acid compound, and
a succinimide dispersant derived from a polyisobutylene group of 1200 molecular weight or less.