

ABSTRACT**ADDITIVE PACKAGE AND LUBRICATING OIL COMPOSITION**

An additive package is disclosed for preparing an automotive crankcase lubricating oil composition for an internal combustion engine. The additive package is made by admixing:

- (i) 50 mass% or less of an oil of lubricating viscosity;
- (ii) 50 mass% or less of at least one overbased metal detergent, preferably at least one overbased metal hydroxybenzoate detergent,;
- (iii) 50 mass% or less of an oil-soluble block or graft co-polymer of at least one polymeric block A which is derived from a hydroxycarboxylic acid and at least one polyalkylene block B which is a residue of a polyalkylene glycol, and
- (iv) optionally, at least one further additive selected from a dispersant, an antioxidant and/or an antiwear agent.

The additive package includes less than 2.00 mass %, preferably less than 1.50 mass %, of a friction modifier which is a monoester of a C₅ to C₃₀ carboxylic acid and which is free of nitrogen.

Component (ii) is preferably an overbased metal hydroxybenzoate detergent.

Component (iii) acts as a friction modifier and can be used as a replacement for a friction modifier such as glycerol monooleate.

The additive package exhibits improved stability.

No figure