CLAIMS

1. A lubricating oil composition which comprises:

(A) an oil of lubricating viscosity, in a major amount;

(B) one or more oil-soluble or oil-dispersible sulfurized fatty acid ester(s), as an additive in an amount providing the lubricating oil composition with greater than or equal to 0.02 mass % sulphur;

(C) one or more oil-soluble or oil-dispersible alkali metal or alkaline earth metal salicylate detergent(s), as an additive in an effective minor amount, providing greater than or equal to 5.0 mmol of salicylate soap per kilogram of the lubricating oil composition;

(D) at least one oil-soluble or oil-dispersible dihydrocarbyl dithiophosphate metal salt, as an additive in an effective minor amount providing no greater than 1200 ppm of phosphorus to the lubricating oil composition, based on the total mass of the lubricating oil composition and as measured by ASTM D5185; and,

(E) an oil-soluble or oil-dispersible ashless anti-oxidant comprising an aminic anti-oxidant, a phenolic anti-oxidant, or a combination thereof, as an additive in an effective minor amount of 0.1 to 5.0 mass %, based on the total mass of the lubricating oil composition,

wherein the lubricating oil composition does not comprise a phosphorus ester additive.

2. A composition as claimed in any one of the preceding claims, wherein the one or more oil-soluble or oil-dispersible sulfurized fatty acid ester(s) is a sulfurized C_5 to C_{29} aliphatic hydrocarbyl fatty acid alkyl ester, a sulfurized C_5 to C_{29} aliphatic hydrocarbyl fatty acid glycerol ester, or a mixture thereof.

3. A composition as claimed in claim 2, wherein the one or more oil-soluble or oil-dispersible sulfurized fatty acid ester(s) is a sulfurized C_5 to C_{29} aliphatic hydrocarbyl fatty acid methyl ester.

4. A composition as claimed in any one of the preceding claims, wherein the one or more oil-soluble or oil-dispersible sulfurized fatty acid ester(s) is derived from sulfurizing a vegetable oil and/or a trans-esterified product of a vegetable oil.

5. A composition as claimed in any one of the preceding claims, wherein the one or more oil-soluble or oil-dispersible sulfurized fatty acid ester(s) is derived from sulfurizing palm oil, corn oil, grapeseed oil, coconut oil, cottonseed oil, wheatgerm oil, soya oil, safflower oil, olive oil, peanut oil, rapeseed oil, sunflower oil, or a trans-esterified product thereof, or a combination thereof.

6. A composition as claimed in any one of the preceding claims, wherein the one or more sulfurized fatty acid ester(s) has a sulphur content of from 5 to 20 mass %.

7. A compositions as claimed in any one of the preceding claims, wherein the one or more oil-soluble or oil-dispersible alkali metal or alkaline earth metal salicylate detergent(s) is an overbased alkali metal or alkaline earth metal salicylate detergent having a TBN at 100 % active mass of at least 150 mg KOH/g.

8. A composition as claimed in any one of the preceding claims, wherein the one or more oil-soluble or oil-dispersible alkali metal or alkaline earth metal salicylate detergent(s) is a calcium salicylate detergent, a magnesium salicylate detergent or a combination thereof.

9. A composition as claimed in any one of the preceding claims, wherein the one or more oil-soluble or oil-dispersible alkali metal or alkaline earth metal salicylate detergent(s) is the only metal detergent present in the lubricating oil composition.

10. A composition as claimed in any one of the preceding claims, wherein the oil-soluble or oil-dispersible ashless anti-oxidant comprises an aromatic amine-anti-oxidant.

11. A composition as claimed in any one of the preceding claims, wherein the lubricating oil composition further includes an oil-soluble or oil-dispersible organo-molybdenum compound, as an additive in an effective minor amount.

12. A composition as claimed in any one of the preceding claims, wherein the at least one oil-soluble or oil-dispersible dihydrocarbyl dithiophosphate metal salt comprises zinc dihydrocarbyl dithiophosphate.

13. A composition as claimed in any one of the preceding claims, wherein the lubricating oil composition further includes at least one borated dispersant, as an additive in an amount to provide from 2-1200 ppm boron to the composition.

14. A method of lubricating a spark-ignited or compression-ignited internal combustion engine comprising lubricating the engine with a lubricating oil composition as claimed in any one of the preceding claims.

15. The use, in the lubrication of a spark-ignited or compression-ignited internal combustion engine, of an oil-soluble or oil-dispersible sulfurized fatty acid ester (B) as defined in any one of claims 1 to 13, as an additive in an effective minor amount, in a lubricating oil composition to reduce and/or prevent the formation of high temperature deposits and/or varnish by the lubricating oil composition on the engine components during operation of the engine wherein the lubricating oil composition is subjected to temperatures of greater than or equal to 300˚C, wherein the lubricating oil composition comprises: (A) an oil of lubricating viscosity, in a major amount; (C) an oil-soluble or oil-dispersible alkali metal or alkaline earth metal salicylate detergent, as defined in any one of claims 1 to 13, as an additive in an effective minor amount, providing greater than or equal to 5 mmol of salicylate soap per kilogram of the lubricating oil composition; (D) at least one oil-soluble or oil-dispersible dihydrocarbyl dithiophosphate metal salt, as defined in any one of claims 1 to 13, as an additive in an effective minor amount providing no greater than 1200 ppm of phosphorus to the lubricating oil composition, based on the total mass of the lubricating oil composition and as measured by ASTM D5185; and, (E) an oil-soluble or oil-dispersible ashless anti-

oxidant, as defined in any one of claims 1 to 13, comprising an aminic anti-oxidant, a phenolic anti-oxidant, or a combination thereof, as an additive in an effective minor amount of 0.1 to 5.0 mass %, based on the total mass of the lubricating oil composition.

16. The use as claimed in claim 15, to reduce and/or prevent the formation of high temperature deposits and/or varnish by the lubricating oil composition in the lubrication of a turbo-driven induction device during operation of the engine.