CLAIMS:

1. A composition, comprising,

a. a lubricating oil basestock;

b. a sulfur containing alkylated aromatic additive of at least 0.01 and less than 20 weight percent of the composition;

c. a dispersant–detergent-inhibitor system of less than 15 weight percent of the composition;

d. a zinc dithiophospahte additive of at least 0.1 weight percent of the composition and no more than 1.0 weight percent of the composition

e. the composition having less than 630 PPM phosphorus, less than 710 PPM zinc, less than 5,000 PPM sulfur, less than 8 TBN and less than 1.0 weight percent ash.

2. The composition of claim 1 further comprising a molybdenum additive wherein the molybdenum additive is less than 2 weight percent of the composition.

3. The composition of claim 1 further comprising a boron additive wherein the boron additive is less than 8 weight percent of the composition.

4. The composition of claim 1 further comprising a sulfur additive.

5. The composition of claim 1 wherein the composition has a viscosity less than 20 cSt at 400 °C, fully saturated structures with an iodine value less than 1 and a volatility less than 15 weight percent loss in Noack.

6. The composition of claim 1 wherein the alkylated aromatic concentration is at least 0.5 weight percent and no more than 8 weight percent of the composition.

7. The composition of claim 1 wherein the base stock is chosen from the group consisting of group II base stocks, group III base stocks, group IV base stocks, and group V base stocks, gas-to-liquids base stocks, and any combination thereof.

8. The composition of claim 1 wherein the dispersant systems comprises additives chosen from the group consisting of borated and non-borated succinimides, succinic acid-esters and amides, alkylphenol-polyamine coupled Mannich adducts, and any combination thereof.

9. The composition of claim 1 wherein the alkylated aromatic additive is a mano-alkylate comprising a carbon and oxygen atomic ratio of at least 10:1 and less than 400:1.

10. The composition of claim 1 wherein the alkylated aromatic additive is an alkylated diphenyl sulfide.

11. The composition of claim 1 further comprising an ashless antioxidant additive.

12. The composition of claim 1 further comprising a sulfur free metal detergent.

13. The composition of claim 10 further comprising an aliphatic sulfur additive.

14. A lubricant additive system for a lubricant composition, comprising:

a. a sulfur containing alkylated aromatic additive of less than 20 weight percent of the lubricant composition;

b. a sulfur-free detergent-dispersant system of less than 15 percent weight percent of the lubricant composition;

c. a zinc dithiophospahte additive of at least 0.1 weight percent of the composition and no more than 1.0 weight percent of the lubricant composition;

d. an alkylated diphenyl sulfide additive

15. The lubricant additive of claim 14 wherein the total lubricant additive treat is in the range of at least 0.01 weight percent and less than 25 weight percent of the lubricant composition.

16. The lubricant additive of claim 14 further a molybdenum additive.

17. The lubricant additive of claim 14 wherein the molybdenum additive is an organic molybdenum additive.

18. The lubricant additive of claim 16 further comprising a non volatile sulfur additive.

19. A method comprising

a. obtaining a composition comprising a lubricating oil basestock, a sulfur containing alkylated aromatic additive of at least 0.01 and less than 20

weight percent of the composition, a dispersant–detergent-inhibitor system of less than 15 percent weight percent of the composition, zinc dithiophosphate additive of at least 0.1 weight percent of the composition and no more than 1.0 weight percent of the composition, wherein the composition has less than 630 PPM phosphorus, less than 710 PPM zinc, less than 5,000 PPM sulfur, less than 8 TBN, less than 1.0 weight percent ash;

b. lubricating an engine with the composition to achieve favorable anti-wear properties, oxidation resistance and cleanliness.

20. A method for reducing sulfur in exhaust gasses in an internal combustion engine, comprising:

a. obtaining a composition comprising a lubricating oil base stock, a sulfur containing alkylated aromatic additive of at least 0.01 and less than 20 weight percent of the composition, a dispersant–detergent-inhibitor system of less than 15 percent weight percent of the composition, zinc dithiophosphate additive of at least 0.1 weight percent of the composition and no more than 1.0 weight percent of the composition, wherein the composition has less than 630 PPM phosphorus, less than 710 PPM zinc, less than 5,000 PPM sulfur, less than 8 TBN, less than 1.0 weight percent ash;

b. lubricating the internal combustion engine with the composition.

CLAIMS

1. A composition having less than 630 ppm phosphorus, less than 710 ppm zinc, less than 5,000 ppm sulfur, less than 8 TBN and less than 1.0 weight percent ash, comprising:

a. a lubricating oil basestock;

b. from 0.01 to less than 20 wt.% of the composition of an alkylated diphenyl sulfide;

c. less than 15 wt.% of a dispersant-detergent-inhibitor system comprising a dispersant chosen from borated and non-borated succinimides, succinic acid-esters and succinic acid-amides, alkylphenol-polyamine coupled Mannich adducts and combinations thereof and a detergent chosen from calcium phenates, calcium sulfonates, calcium salicylates, magnesium phenates, magnesium sulfonates, magnesium salicylates, metal carbonates, borated detergents and combinations thereof; and

d. from 0.1 to 1.0 wt. % of the composition of a zinc dithiophosphate additive.

2. The composition of claim 1, further comprising a molybdenum additive wherein the molybdenum additive is less than 2 weight percent of the composition.

3. The composition of claim 1, further comprising a boron additive wherein the boron additive is less than 8 weight percent of the composition.

4. The composition of claim 1, wherein the composition has a viscosity less than 20 cSt at 400 °C, fully saturated structures with an iodine value less than 1 and a volatility less than 15 weight percent loss in Noack.

5. The composition of claim 1, wherein the alkylated aromatic concentration is at least 0.5 weight percent and no more than 8 weight percent of the composition.

6. The composition of claim 1, further comprising additives chosen from the group comprising phenolic and aminic ashless anti-oxidants, molybdenum or organic friction modifiers, defoamants, seal swell additives, pour point depressants, and any combination thereof.

7. The composition of claim 1, wherein the base stock is chosen from the group consisting of group II base stocks, group III base stocks, group IV base stocks, and group V base stocks, gas-to-liquids base stocks, and any combination thereof.

8. The composition of claim 1, wherein the alkylated aromatic additive is a mono-alkylate comprising a carbon and oxygen atomic ratio of at least 10:1 and less than 400:1.

9. The composition of claim 1, further comprising an aliphatic sulfur additive.