That which is claimed:

1. An antiwear hydraulic fluid composition comprising (a) a major amount of a base oil of lubricating viscosity and (b) a minor amount of at least one oil soluble detergent additive comprising a salt of an alkyl-substituted hydroxybenzoic acid or a sulfurized derivative thereof, wherein said salt is selected from the group consisting of alkali metal salts, alkaline earth metal salts, ammonium salts or substituted ammonium salts, and further wherein said antiwear hydraulic fluid composition has a Carboxylate Index of greater than 0.084.
2. The antiwear hydraulic fluid composition according to claim 1, wherein said alkyl-substituted hydroxybenzoic acid comprises a linear or branched alkyl group or a mixture of linear and branched alkyl groups.
3. The antiwear hydraulic fluid composition according to claim 1 wherein at least 90% of the alkyl groups of said alkyl-substituted hydroxybenzoic acid are C_{14} or greater.
4. The antiwear hydraulic fluid composition according to claim 1 wherein said antiwear hydraulic fluid composition is able to achieve an emulsion of 0-0-80 at 40 minutes in the ASTM D 1401 water separability test method.
5. The antiwear hydraulic fluid composition according to claim 1, wherein said salt comprises a calcium salt.
6. The antiwear hydraulic fluid composition according to claim 1, wherein said hydraulic fluid composition comprises no added rust inhibitors.
7. The antiwear hydraulic fluid composition according to claim 1, wherein said oil soluble detergent additive comprises a TBN of less than 200 mg KOH/g.
8. The antiwear hydraulic fluid composition according to claim 1, wherein said oil soluble detergent additive comprises a TBN of less than 160 mg KOH/g.
9. The antiwear hydraulic fluid composition according to claim 1, wherein said oil soluble detergent additive comprises greater than 0.1 weight percent of the total weight of said antiwear hydraulic fluid composition.
10. The antiwear hydraulic fluid composition according to claim 1, wherein said oil soluble detergent additive comprises greater than 0.2 weight percent of the total weight of said antiwear hydraulic fluid composition.

11. The antiwear hydraulic fluid composition of claim 1 further comprising at least one of these co-additives: (a) an ashless dispersant; (b) an oxidation inhibitor; (d) a demulsifier; (e) an extreme pressure agent; (f) a friction modifier; (g) a multifunctional additive; (h) a viscosity index improver; (i) a pour point depressant; (j) a foam inhibitor; and (k) an emulsifier..

12. An antiwear hydraulic fluid composition comprising (a) a major amount of a base oil of lubricating viscosity and (b) a minor amount of at least one oil soluble detergent additive comprising a salt of an alkyl-substituted hydroxybenzoic acid or a sulfurized derivative thereof, wherein said salt is selected from the group consisting of alkali metal salts, alkaline earth metal salts, ammonium salts or substituted ammonium salts, and further wherein said antiwear hydraulic fluid composition has a Carboxylate Index of greater than 0.034.

13. The antiwear hydraulic fluid composition according to claim 12, wherein said alkyl-substituted hydroxybenzoic acid comprises a linear or branched alkyl group or a mixture of linear and branched alkyl groups.

14. The antiwear hydraulic fluid composition according to claim 12 wherein at least 90% of the alkyl groups of said alkyl-substituted hydroxybenzoic acid are C_{14} or greater.

15. The antiwear hydraulic fluid composition according to claim 12 wherein said antiwear hydraulic fluid composition is able to achieve a pass result in the ASTM D 665 rust inhibition method.

16. The antiwear hydraulic fluid composition according to claim 12, wherein said salt comprises a calcium salt.

17. The antiwear hydraulic fluid composition according to claim 12, wherein said hydraulic fluid composition comprises no added rust inhibitors.

18. The antiwear hydraulic fluid composition according to claim 12, wherein said oil soluble detergent additive comprises a TBN of less than 200 mg KOH/g.

19. The antiwear hydraulic fluid composition according to claim 12, wherein said oil soluble detergent additive comprises a TBN of less than 160 mg KOH/g.

20. The antiwear hydraulic fluid composition according to claim 12, wherein said oil soluble detergent additive comprises greater than 0.05 weight percent of the total weight of said antiwear hydraulic fluid composition.

21. The antiwear hydraulic fluid composition according to claim 12, wherein said oil soluble detergent additive comprises greater than 0.07 weight percent of the total weight of said antiwear hydraulic fluid composition.

22. The antiwear hydraulic fluid composition of claim 12 further comprising at least one of these co-additives: (a) an ashless dispersant; (b) an oxidation inhibitor; (d) a demulsifier; (e) an extreme pressure agent; (f) a friction modifier; (g) a multifunctional additive; (h) a viscosity index improver; (i) a pour point depressant; (j) a foam inhibitor; and (k) an emulsifier.

Claims

1. The use of a composition comprising:(a) a major amount of a base oil of lubricating viscosity; and (b) a minor amount of at least one oil soluble detergent additive comprising a non-sulfurized calcium salt of an alkyl-substituted hydroxybenzoic acid and further wherein said composition has a Carboxylate Index (as defined herein) of greater than 0.084; as an antiwear hydraulic fluid.

2. The use according to claim 1, wherein said alkyl substituted hydroxybenzoic acid comprises a linear or branched alkyl group or a mixture of linear and branched alkyl groups.

3. The use according to claim 1 wherein at least 90% of the alkyl groups of said alkyl-substituted hydroxybenzoic acid are C_{14} or greater.

4. The use according to claim 1 wherein said composition is able to achieve an emulsion of 0-0-80 at 40 minutes in the ASTM D 1401 water separability test method.

5. The use according to claim 1, wherein said composition comprises no added rust inhibitors.

6. The use according to claim 1, wherein said oil soluble detergent additive comprises a TBN of less than 200 mg KOH/g.

7. The use according to claim 1, wherein said oil soluble detergent additive comprises a TBN of less than 160 mg KOH/g.

8. The use according to claim 1, wherein said oil soluble detergent additive comprises greater than 0.1 weight percent of the total weight of said composition.

9. The use according to claim 1, wherein said oil soluble detergent additive comprises greater than 0.2 weight percent of the total weight of said composition.

10. The use according to claim 1, wherein the composition further comprises at least one of these co-additives: (a) an ashless dispersant; (b) an oxidation inhibitor; (d) a demulsifier; (e) an extreme pressure agent; (f) a friction modifier; (g) a multifunctional additive; (h) a viscosity index improver; (i) a pour point depressant; (j) a foam inhibitor; and (k) an emulsifier.

11. The use according to claim 1 wherein said composition is able to achieve a pass result in the ASTM D 665 rust inhibition method.

12. The use according to claim 1, wherein said oil soluble detergent additive comprises greater than 0.05 weight percent of the total weight of said composition.

13. The use according to claim 1, wherein said oil soluble detergent additive comprises greater than 0.07 weight percent of the total weight of said composition.