WHAT IS CLAIMED IS:

1. An oil soluble additive composition comprising a salt or complex of

(i) a molybdenum component which comprises a molybdenum oxide, sulfide, or oxysulfide of the general formula MoO_xS_y wherein $x \geq 0$, $y \geq 0$, and $12 \geq (x+y) \geq 2$; ~~and~~

(ii) ~~an imide wherein said imide~~ a hydrocarbyl succinimide, wherein said hydrocarbyl succinimide comprises the reaction product of at least one hydrocarbyl succinic anhydride ~~dicarboxylic acid component~~ having from about ~~8~~ 12 to about ~~22~~ 18 carbon atoms in the hydrocarbyl group, and at least one nitrogen compound selected from ammonia and a polyamine; and

(iii) wherein the salt or complex is sulfurized.

2. The oil soluble additive composition of claim 1, wherein the molybdenum component is a molybdenum sulfide.

3. The oil soluble additive composition of claim 1, wherein the hydrocarbyl succinimide ~~imide~~ contains at least one basic nitrogen.

~~4. The oil soluble additive composition of claim 1, wherein the imide is a phthalamide.~~

~~5. The oil soluble additive composition of claim 1, wherein the imide is a hydrocarbyl succinimide.~~

~~6. The oil soluble additive composition of claim 5 wherein the hydrocarbyl succinimide is prepared from a hydrocarbyl succinic anhydride and wherein the hydrocarbyl group contains from about 8 to about 22 carbon atoms.~~

~~7. The oil soluble additive composition of claim 1, wherein the dicarboxylic acid component is a dicarboxylic acid, dicarboxylic acid salt, dicarboxylic acid anhydride, dicarboxylic acid ester, or mixtures thereof.~~

~~8. The oil soluble additive composition of claim 1, wherein the dicarboxylic acid component is a hydrocarbyl dicarboxylic acid wherein the hydrocarbyl group contains from about 8 to about 22 carbon atoms.~~

~~9~~4. The oil soluble additive composition of claim 1, wherein the charge mole ratio of the hydrocarbyl succinic anhydride ~~dicarboxylic acid component~~ to the nitrogen compound is about 6:1 to 1:1.

~~10~~5. The oil soluble additive composition of claim 1, wherein the polyamine is a polyalkylenepolyamine of the general formula

$$H_2N(\text{-}R\text{-}NH)_n\text{-}H$$

and wherein R is an alkylene group of 2-3 carbon atoms and n is an integer of from 1 to 11.

~~11~~6. The oil soluble composition of claim 1, wherein the polyamine is tetraethylenepentamine (TEPA), diethylenetriamine (DETA), ethylenediamine (EDA), or mixtures thereof.

~~12~~7. The oil soluble additive composition of claim 1, wherein the molybdenum component is sulfurized.

~~13~~8. The oil soluble additive composition of claim 1, wherein the mole ratio of molybdenum to sulfur in the oil soluble additive composition is about 1:0 to 1:8.

9. The oil soluble additive composition of Claim 1, wherein the hydrocarbyl succinic anhydride is selected from the group consisting of dodecenyl succinic anhydride, hexadecenyl succinic anhydride, and octadecenyl succinic anhydride.

~~14~~10. A lubricating oil composition comprising:

(1) an oil of lubricating viscosity and

(2) an oil soluble additive composition comprising a salt or complex of:

(i) a molybdenum component which comprises a molybdenum oxide, sulfide, or oxysulfide of the general formula MoO_xS_y wherein $x \geq 0$, $y \geq 0$, and $12 \geq (x+y) \geq 2$; ~~and~~

(ii) a hydrocarbyl succinimide, wherein said hydrocarbyl succinimide~~an imide wherein said imide~~ comprises the reaction product of at least one hydrocarbyl succinic anhydride~~dicarboxylic acid component~~, having from about ~~8~~ 12 to about ~~22~~ 18 carbon atoms in the hydrocarbyl group, and at least one nitrogen compound selected from ammonia and a polyamine; and

(iii) wherein the salt or complex is sulfurized.

~~15~~11. The lubricating oil composition of claim ~~14~~10, wherein the molybdenum content of the lubricating oil composition is between about 50 ppm and 5000 ppm.

~~16~~12. The lubricating oil composition of claim ~~14~~10, wherein the oil soluble additive composition content is between 0.05 to 15% by weight.

13. The lubricating oil composition of claim 10, wherein the hydrocarbyl succinic anhydride is selected from the group consisting of dodecenyl succinic anhydride, hexadecenyl succinic anhydride, and octadecenyl succinic anhydride.

~~17~~14. A process for preparing an oil soluble additive composition which comprises reacting:

(i) a molybdenum component which is, or is capable of forming, a molybdenum oxide, sulfide, or oxysulfide of the general formula MoO_xS_y wherein $x \geq 0$, $y \geq 0$, and $12 \geq (x+y) \geq 2$;

(ii) a hydrocarbyl succinimide, wherein said hydrocarbyl succinimide~~an imide which~~ comprises the reaction product of a at least one hydrocarbyl succinic anhydride~~dicarboxylic acid component~~ having from about ~~8~~ 12 to about ~~22~~ 18 carbon atoms in the hydrocarbyl group, and at least one nitrogen compound selected from ammonia and a polyamine component; and

(iii) wherein the product obtained from the reaction of step (i) and step (ii) is sulfurized.

~~18~~15. The process of claim ~~17~~14, wherein the product obtained from the reaction of step (i) and step (ii) is sulfurized in an amount sufficient to provide 0.01 to 12 atoms of sulfur per atom of molybdenum.

~~19~~16. The process of claim ~~17~~14, wherein the reaction of the molybdenum component and the hydrocarbyl succinimide~~imide~~ is in the presence of a polar promoter.

~~20~~17. The process of claim ~~19~~16, wherein the polar promoter is selected from the group consisting of 1,3-propanediol, 1,4-butanediol, diethylene glycol, butyl cellosolve, propylene glycol, 1,4-butyleneglycol, methyl carbitol, ethanolamine, ammonium hydroxide, alkyl ammonium hydroxide, metal hydroxide, N-methyl-diethanol-amine, dimethyl formamide, N-methyl acetamide, dimethyl acetamide, methanol, ethylene glycol, dimethyl sulfoxide, hexamethyl phosphoramide, tetrahydrofuran, water, inorganic acid, and mixtures thereof.

~~21~~18. The process of claim ~~20~~17, wherein the polar promoter is water.

~~22~~19. The process of claim ~~18~~14, wherein the sulfurization is carried out with a sulfur source selected from sulfur, hydrogen sulfide, phosphorus pentasulfide, R_2S_x where R is hydrocarbyl, and x is at least 2, inorganic sulfides or inorganic polysulfides, thioacetamide, thiourea, mercaptans of the formula RSH where R is hydrocarbyl, or a sulfur-containing antioxidant.

~~23~~20. The process of claim ~~17~~14, wherein the molybdenum component is selected from the group consisting of molybdic acid, ammonium molybdate, sodium molybdate, potassium molybdate, metal molybdates, $MoOC_{l4}$, MoO_2Br_2, $Mo_2O_3C_{l6}$, molybdenum trioxide, and mixtures thereof.

~~24~~21. The process of claim ~~17~~14, wherein the molybdenum component is molybdenum trioxide.

~~25. The process of claim 17, wherein the dicarboxylic acid component comprises at least one hydrocarbyl succinic acid or anhydride.~~

~~26~~22. The process of claim ~~17~~14, wherein the polyamine component comprises a polyalkylenepolyamine represented by the general formula

$$H_2N(\text{-}R\text{-}NH)_n\text{-}H$$

and wherein R is an alkylene group of 2-3 carbon atoms and n is an integer of from 1 to 11.

~~27~~23. The process of claim ~~17~~14, wherein the polyamine component is tetraethylenepentamine (TEPA), diethylenetriamine (DETA), ethylenediamine (EDA), or mixtures thereof.

24. The process of claim 14, wherein the hydrocarbyl succinic anhydride is selected from the group consisting of dodecenyl succinic anhydride, hexadecenyl succinic anhydride, and octadecenyl succinic anhydride.