What we claim:

1. An additive package composition comprising:

I) an ester or amide containing quaternary ammonium salt ("amide/ester quat"), wherein the ~~amide/~~ester quat comprises the reaction product of:

a) a quaternizable compound that is the reaction product of:

(i) a hydrocarbyl-substituted acylating agent, wherein the hydrocarbyl-substituent has a number average molecular weight less than 300 and comprises at least one dodecenyl succinic anhydride, dodecenyl succinic acid, hexadecenyl succinic anhydride, hexadecenyl succinic acid, octadecenyl succinic anhydride, octadecenyl succinic acid, or mixtures thereof, and

(ii) a nitrogen containing compound having an oxygen ~~or nitrogen~~ atom capable of reacting with said hydrocarbyl-substituted acylating agent to form an ester ~~or amide~~, and further having at least one quaternizable amino group; and

b) a quaternizing agent suitable for converting the quaternizable amino group of the nitrogen containing compound to a quaternary nitrogen wherein the quaternizing agent comprises at least one hydrocarbyl epoxide

II) a hydrolyzed alkenyl succinic acid or anhydride with a molecular weight M_n ranging from about 225 to about 1000.

2. The additive package composition of claim 1, wherein the quaternizable amino group is a primary, secondary or tertiary amino group.

~~3. The composition of any previous claim, wherein the hydrocarbyl-substituted acylating agent comprises at least one dodecenyl succinic anhydride, dodecenyl succinic acid, hexadecenyl succinic anhydride, hexadecenyl succinic acid, octadecenyl succinic anhydride, octadecenyl succinic acid, or mixtures thereof.~~

~~4. The composition of any previous claim, wherein the reaction of a)(i) with a)(ii) is carried out at a temperature of less than 80 °C.~~

~~5. The composition of any previous claim wherein the nitrogen containing compound excludes dimethylaminopropylamine.~~

~~6. The composition of any previous claim, wherein the quaternizing agent comprises at least one dialkyl sulfate, alkyl halide, hydrocarbyl substituted carbonate, hydrocarbyl epoxide, carboxylate, alkyl ester, or mixtures thereof.~~

~~7. The composition of claim 6, wherein the quaternizing agent is a hydrocarbyl epoxide.~~

~~8. The composition of claim 7, wherein the quaternizing agent is a hydrocarbyl epoxide in combination with an acid.~~

~~9. The composition of claim 6, wherein the quaternizing agent is an oxalate or terephthalate.~~

~~10. The composition of any previous claim wherein the quaternizing agent excludes methyl salicylate.~~

~~11~~3. The additive package composition of any previous claim, further comprising: III) at least one ~~other additive~~stabilizing solvent.

~~12. The composition of claim 11, wherein the at least one other additive comprises a foam inhibitor, a detergent, a dispersant, a demulsifier, a lubricity agent, a cold flow improver, an antioxidant, or a mixture thereof.~~

~~13. The composition of claim 11, wherein the at least one other additive comprises at least one hydrocarbyl-substituted succinic acid.~~

~~14. The composition of claim 11, wherein the at least one other additive comprises at least one hydrocarbyl-substituted quaternary ammonium salt.~~

~~15. The composition of claim 11, wherein the at least one other additive comprises at least one detergent/dispersant that is an amphiphilic substance which possess at least one hydrophobic hydrocarbon radical with a number average molecular weight of 100 to 10000 and at least one polar moiety selected from (i) Mono- or polyamino groups having up to 6 nitrogen atoms, at least one nitrogen atom having basic properties; (ii) Hydroxyl groups in combination with mono or polyamino groups, at least one nitrogen atoms having basic properties; (v) Polyoxy-C_2 to C_4 alkylene moieties terminated by hydroxyl groups, mono- or polyamino groups, at least one nitrogen atom having basic properties, or by carbamate groups; (vii) Moieties derived from succinic anhydride and having hydroxyl and/or amino and/or amido and/or imido groups; and/or (viii) Moieties obtained by Mannich reaction of substituted phenols with aldehydes and mono-or polyamines.~~

~~16. The composition of claims 13 through 15, wherein the hydrocarbyl-substituent is a polyisobutylene having a molecular weight ranging from 100 to 5000.~~

~~17. The composition of claim 11, wherein the at least one other additive comprises at least one Mannich compound.~~

~~18. The composition of any of the above claims, further comprising a hydrolyzed alkenyl succinic acid or anhydride with a molecular weight M_n ranging from about 225 to about 1000.~~

~~19~~4. The additive package composition of claim 1~~8~~, wherein the hydrolyzed alkenyl succinic acid or anhydride has a M_n of 1000.

~~20~~5. The additive package compostion of claim 1~~9~~, wherein the hydrolyzed alkenyl succinic acid or anhydride has a M_n of 550.

~~21. A composition comprising an ester or amide containing quaternary ammonium salt ("amide/ester quat") and a hydrolyzed alkenyl succinic acid or anhydride with a molecular weight M_n ranging from about 225 to about 1000, wherein the amide/ester quat comprises the reaction product of:~~

~~c) a quaternizable compound that is the reaction product of:~~

~~(i) a hydrocarbyl-substituted acylating agent, wherein the hydrocarbyl-substituent has a number average molecular weight less 100 to 700, and~~

~~(ii) a nitrogen containing compound having an oxygen or nitrogen atom capable of reacting with said hydrocarbyl substituted acylating agent to form an ester or amide, and further having at least one quaternizable amino group; and~~

~~d) a quaternizing agent suitable for converting the quaternizable amino group of the nitrogen containing compound to a quaternary nitrogen.~~

~~22~~6. A fuel composition comprising t~~T~~he additive composition of any ~~previous~~ one of claims 1 to 5 and~~, further comprising~~ a fuel that is liquid at room temperature.

~~23. The composition of claim 22, wherein the fuel is gasoline or diesel.~~

~~24~~7. The fuel composition of claim 6,~~23~~ further comprising at least one of a low number average molecular weight soap having a M_n of less than 340,, a low number average molecular weight polyisobutylene succinimide (PIBSI) having a M_n of less than 400, or a mixture thereof.

~~25. The fuel composition of claims 22 through 24, further comprising a low number average molecular weight soap with a number average molecular weight (M_n) of less than 340.~~

~~26~~8. The fuel composition of claim 6 or 7~~s 22 through 24~~, further comprising from 0.01 to 25 ppm of a metal and from 1 to 12 ppm of a corrosion inhibitor.

~~27~~9. The fuel composition of claim 8~~26~~, wherein the corrosion inhibitor is an alkenyl succinic acid comprising at least one of dodecenyl succinic acid (DDSA), hexadecenyl succinic acid (HDSA), or mixtures thereof.

~~28. The fuel composition of claims 22 through 24, wherein the fuel comprises PIBSI with a low number average molecular weight M_n of less than 400.~~

~~29. The composition of any of claims 1 to 21, further comprising an oil of lubricating viscosity.~~

~~30. A method of operating an internal combustion engine comprising:~~

~~e) supplying to said engine:~~

~~(i) a fuel, wherein said fuel~~

~~1. is liquid at room temperature; and~~

~~2. has a composition comprising an amide/ester quat according to any claims 1 to 21 therein; and~~

~~f) operating said engine.~~

~~31. A method of operating an internal combustion engine comprising:~~

~~g) supplying to a crankcase of said engine:~~

~~(i) an oil of lubricating viscosity having a composition comprising an amide/ester quat according to any claims 1 to 21 therein, and~~

~~h) operating said engine.~~

~~32. The method of claim 31 wherein the oil of lubricating viscosity has total sulfated ash of less than 1 wt% and/or a phosphorus content of less than 0.11 wt%.~~

~~33. A method of reducing and/or preventing injector deposits comprising:~~

~~i) supplying to a fuel injector of said engine:~~

~~(i) a fuel, wherein said fuel~~

~~1. is liquid at room temperature; and~~

~~2. has a composition comprising an amide/ester quat according to any claims 1 to 21 therein; and~~

~~j) operating said engine.~~

~~34. The method of claim 33, wherein the deposits comprise a low number average molecular weight soap, a low number average molecular weight polyisobutylene succinimide (PIBSI), or mixtures thereof.~~

~~35. The method of claim 34 wherein the fuel comprises a low number average molecular weight soap with a number average molecular weight (M_n) of less than 340.~~

~~36. The method of claims 33 through 34 wherein the fuel comprises from 0.01 to 25 ppm of a metal and from 1 to 12 ppm of a corrosion inhibitor.~~

~~37. The method of claim 36 wherein the corrosion inhibitor is an alkenyl succinic acid comprising at least one of dodecenyl succinic acid (DDSA), hexadecenyl succinic acid (HDSA), or mixtures thereof.~~

~~38. The method of claim 34, wherein the fuel comprises a PIBSI with a low number average molecular weight M_n of less than 400.~~

~~39. The method of claims 33 to 38, wherein the fuel is gasoline or diesel.~~

~~40. The method of any of claims 30 to 39 wherein the engine comprises a high pressure common rail injector system.~~

~~41~~10. The use of the additive package composition of any of claim~~s~~ 1 to 5~~21~~ to reduce and/or prevent internal deposits in an engine operated with a fuel, wherein the fuel is gasoline or diesel.

~~42. The use of claim 41 wherein the engine comprises a high pressure common rail injector system.~~

~~43. The use of claim 41 or 42 wherein said deposits are internal diesel injector deposits (IDID) deposits.~~

~~44. An additive package having improved stability, said additive package comprising an amide/ester quat according to any claims 1 to 21 therein.~~

~~45. A method of improvig additie package stability by adding to siad additive package an amide/ester quat according to any claims 1 to 21.~~

~~46. The use of an amide/ester quate according to any claims 1 to 21 to improve additive package stability.~~