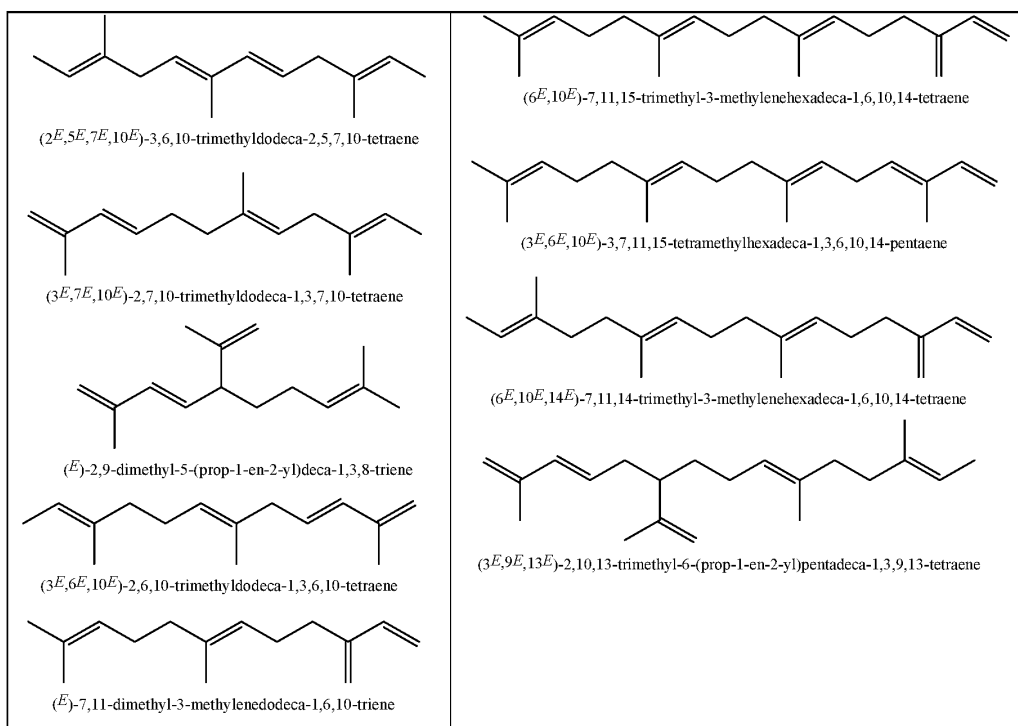
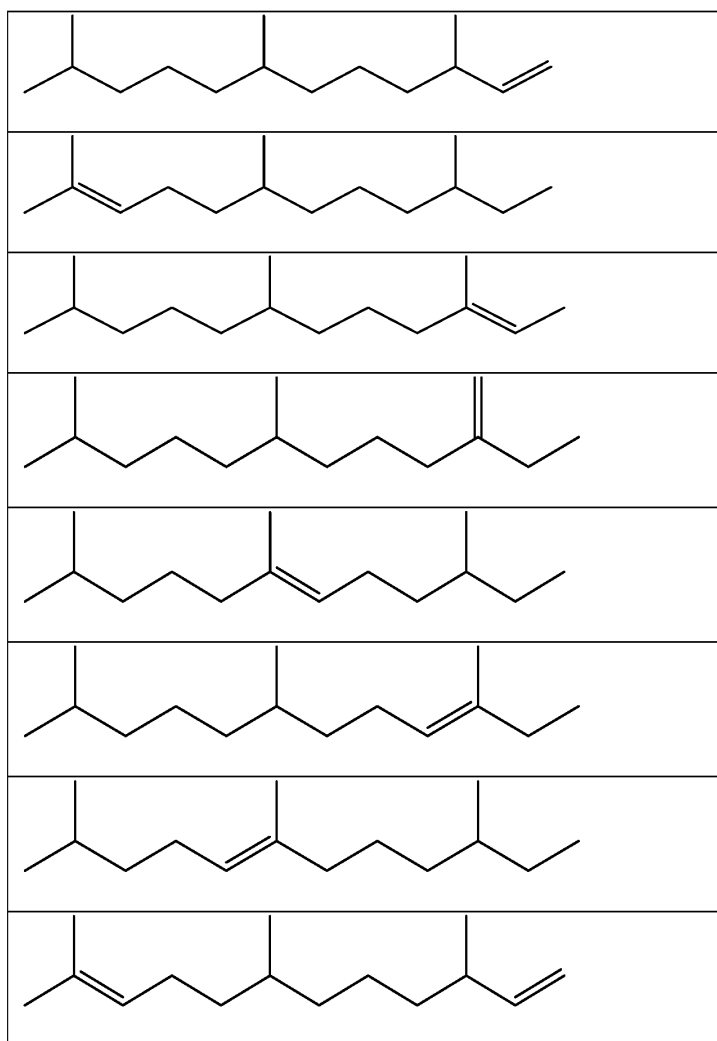


What is claimed is:

1. An alkylphenol detergent composition comprising at least one phenol moiety having a hydrocarbyl group attached thereto, the hydrocarbyl group comprising at least one oligomer comprising monomers equivalent to 5 to 10 carbon atom branched olefins.
2. The alkylphenol detergent composition of claim 1, where the monomers are equivalent to 5 to 10 carbon atom branched polyenes.
3. The alkylphenol detergent composition of claim 2, where the monomers are equivalent to isoprene.
4. The alkylphenol detergent composition of any previous claim, where the oligomer is a terpene.
5. The alkylphenol detergent composition of any previous claim, where the oligomer is equivalent to at least one of formula

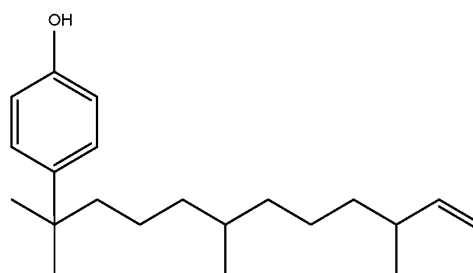
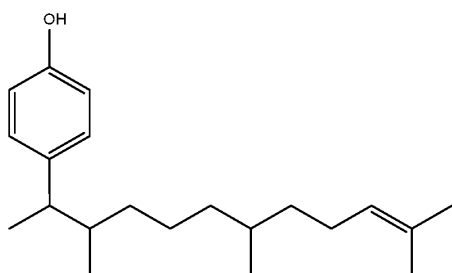
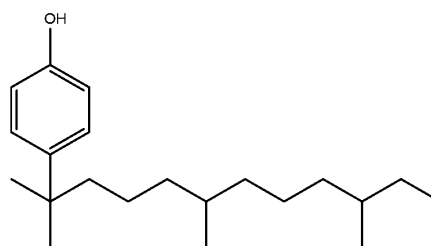
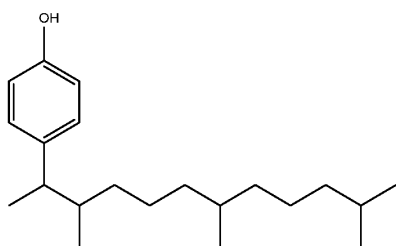


6. The detergent composition of any previous claim, wherein the oligomer is equivalent to a partially or completely hydrogenated form of a terpene.
7. The detergent composition of claim 5, wherein the oligomer is equivalent to any of formula:



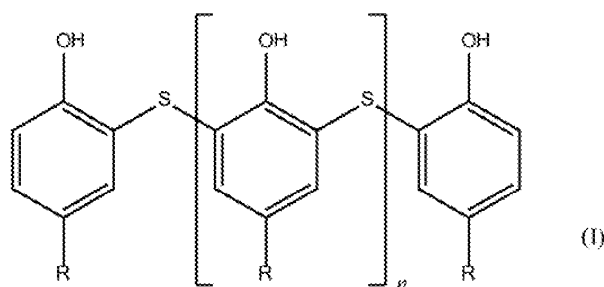
8. The detergent composition of any previous claim, where the hydrocarbyl unit comprises 15 to 60 carbon atoms.

9. The detergent composition of any previous claim, where the detergent comprises an alkylphenol moiety of any of formula:



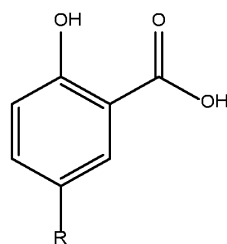
10. The detergent composition of any previous claim, wherein the detergent is a sulfur-bridged phenate detergent, a sulfur-free alkylene-bridged phenate detergent, a salicylate detergent, or mixtures thereof.
11. The detergent composition of any previous claim, where the detergent comprises one or more alkali metals, one or more alkaline earth metals, or mixtures thereof.
12. The detergent composition of any previous claim, where the detergent is overbased.
13. The detergent composition of claim 12, where the overbased detergent has a metal ratio of at least 1.5, at least 5, or at least 7.

14. The detergent composition of any previous claim, wherein the detergent is an overbased sulfur-coupled phenate detergent with a metal ratio of at least 1.5.
15. The detergent composition of any previous claim, wherein the composition is a sulfur-bridged phenate represented by the structure



wherein each R is an aliphatic hydrocarbyl group equivalent to an oligomer of isoprene, higher branched olefins, or mixtures thereof, that contains 15 to 60 carbon atoms; and $n = 0$ to 8, or 1 to 6, or 1 to 4, or 2 to 4.

16. The detergent composition of any previous claim, wherein the detergent is a neutral or overbased salt of alkylsalicylic acid.
17. The detergent composition of any previous claim, wherein the composition is an alkylsalicylate represented by the structure



where R is an aliphatic hydrocarbyl group equivalent to an oligomer of isoprene, higher branched olefins, or mixtures thereof, and wherein the hydrocarbyl group contains 15 to 60 carbon atoms

18. A lubricating composition comprising (a) an oil of lubricating viscosity and (b) the alkylphenol detergent composition of any previous claim.

19. The lubricating composition of claim 18, wherein the alkylphenol detergent is present from about 0.01 to about 2 wt%, or from about 0.1 to about 1.75 wt%, or about 0.2 to about 1.5 wt% of the lubricating composition.
20. The lubricating composition of claim 18 or 19, wherein the composition is substantially free of an alkylphenol-containing detergent wherein the alkylphenol is derived from oligomers of propene.
21. The lubricating composition of any of claims 18 to 20, further comprising a zinc dialkyldithiophosphate.
22. The lubricating composition of any of claims 18 to 21, further comprising a dispersant.
23. The lubricating composition of claim 22, wherein the dispersant is a polyisobutylene succinimide dispersant.
24. The lubricating composition of any of claims 22 to 23, wherein the dispersant is present at 0.1 to 5 wt %, or 0.3 to 4 wt %, or 0.5 to 3 wt %, or 1 to 2.5 or 3 wt %, or 1.5 to 4 wt %, or 1.5 to 3 wt %, or even 0.1 to 3 wt %, or 0.1 to 2.5 wt %, or 0.2 to 2 wt %.
25. The lubricating composition of any of claims 18 to 24, further comprising a phosphorus-containing antiwear agent chosen from (i) a non-ionic phosphorus compound, which may be a hydrocarbyl phosphite; or (ii) an amine salt of a phosphorus compound.
26. The lubricating composition of any of claims 18 to 25, further comprising a thiadiazole.
27. The lubricating composition of claim 26, wherein the thiadiazole is present at 0.1 to 0.5 wt %, or 0.2 to 0.4 wt %, or 0.25 to 0.35 wt %, or even from 0.05 to 1 wt %, or 0.07 to 0.7 wt %, or 0.1 to 0.3 wt %, or 0.15 to 0.25 wt %.

28. A method of lubricating a mechanical device comprising supplying to the device the lubricating composition of any of claims 18 to 27.
29. The method of claim 28, wherein the mechanical device is an internal combustion engine.
30. The method of claim 29, wherein the internal combustion engine is a heavy duty diesel compression ignited internal combustion engine or a spark assisted compression ignited internal combustion engine.
31. The method of claim 28, wherein the mechanical device is an automatic transmission.
32. The method of claim 28, wherein the mechanical device is a manual transmission.
33. The method of claim 28, wherein the mechanical device is an automotive axle.
34. The method of claim 28, wherein the mechanical device is an off-highway vehicle.