What is claimed is:

1. A diesel engine lubricating composition comprising:

an oil of lubricating viscosity having greater than 50 weight percent of a Group III base oil, a Group IV base oil, a Group V base oil, or mixtures thereof;

a first PIB succinimide dispersant derived from an 1800 to 2500 Mn PIB;

a second PIB succinimide dispersant derived from a PIB with an Mn less than 1600, where at least one of the first PIB succinimide dispersant and the second PIB succinimide dispersant is boron-free;

an alkaline earth metal salicylate detergent;

an alkaline earth metal sulfonate detergent present in an amount to deliver 0.1 wt % to 1.2 wt % of alkaline earth metal soap to the lubricating composition; and

a phosphorus antiwear agent present in an amount to deliver 300 to 900 ppm phosphorous to the lubricating composition,

the lubricating composition having a total sulfated ash of between 0.3 to 1.1 wt. %; a kinematic viscosity at 100°C of less than 8.3 cSt; a total alkaline earth metal soap of from 0.6 wt % to 2.1 wt %, and a HTHS measured according to ASTM D4683 of less than 2.7 mPa·s.

~~2.~~ 2. The composition of claim 1, wherein the first PIB succinimide dispersant has a TBN (KOH/g) of from 15 to 25 or ~~.~~

~~3. The composition of claim 1 or 2, wherein the first PIB succinimide dispersant has a TBN (KOH/g of from~~ 15 to 20.

~~4.~~ 3. The composition of any one of the preceding claims, wherein the PIB of the first PIB succinimide dispersant has a number average molecular weight of from 1750 to 2200 Mn or ~~.~~

~~5. The composition of any one of the preceding claims, wherein the PIB of the first PIB succinimide dispersant has a number average molecular weight of from~~ 1800 to 2100 Mn or ~~.~~

~~6. The composition of any one of the preceding claims, wherein the PIB of the first PIB succinimide dispersant has a number average molecular weight of from~~ 1850 to 2150 Mn.

~~7.~~ 4. The composition of any one of the preceding claims, wherein the first PIB succinimide dispersant is present in the lubricating composition in an amount of from 0.5 wt % to 10 wt% or ~~.~~

~~8. The composition of any one of the preceding claims, wherein the first PIB succinimide dispersant is present in the lubricating composition in an amount of from~~ 0.8 wt % to 6 wt% or ~~.~~

~~9. The composition of any one of the preceding claims, wherein the first PIB succinimide dispersant is present in the lubricating composition in an amount of from~~ 1 wt % to 5 wt% or ~~.~~

~~10. The composition of any one of the preceding claims, wherein the first PIB succinimide dispersant is present in the lubricating composition in an amount of from~~ 1.5 wt % to 5 wt%.

~~11. The composition of any one of the preceding claims, wherein the first PIB succinimide dispersant is prepared by a thermal direct alkylation process.~~

~~12. The composition of any one of the preceding claims, wherein the first PIB succinimide dispersant comprises a mixture of two dispersants.~~

~~13.~~ 5. The composition of any one of the preceding claims, wherein the second PIB succinimide dispersant is derived from a PIB having a number average molecular weight of from 750 to 1600 or ~~.~~

~~14. The composition of any one of the preceding claims, wherein the second PIB succinimide dispersant is derived from a PIB having a number average molecular weight of from~~ 1000 to 1600 or ~~.~~

~~15. The composition of any one of the preceding claims, wherein the second PIB succinimide dispersant is derived from a PIB having a number average molecular weight of from~~ 1200 to 1600 or~~.~~

~~16. The composition of claim 13, wherein the second PIB succinimide dispersant~~ is derived from a PIB having a number average molecular weight of from 800 to 1150 or ~~.~~

~~17. The composition of claims 13 or 16, wherein the second PIB succinimide dispersant is derived from a PIB having a number average molecular weight of from~~ 900 to 1100.

~~18. The composition of any one of the preceding claims, wherein the second PIB succinimide dispersant is prepared by a thermal direct alkylation process.~~

~~19.~~ 6. The composition any one of the preceding claims, wherein the second PIB succinimide dispersant is present in the lubricating composition in an amount of from 1 to 5 wt %, or from 1.5 to 4.8 wt %, or from 1.8 to 4.6 wt %, or from 1.9 to 4.6 wt %.

~~20.~~ 7. The composition of any one of claims 1 to 13, 18 and 19, wherein the second PIB succinimide dispersant comprises from 1 to 5 wt % of a PIB succinimide dispersant derived from a PIB having an Mn of from 900 to 1100 and from 1 to 5 wt % of a PIB succinimide dispersant derived from a PIB having an Mn of from 1200 to 1600.

~~21.~~ 8. The composition of any one of the preceding claims, wherein the second PIB succinimide dispersant has a TBN (KOH/g) of 20 to 35 or ~~.~~

~~22. The composition of any one of the preceding claims, wherein the second PIB succinimide dispersant has a TBN (KOH/g) of~~ 25 to 30 or~~.~~

~~23. The composition of any one of the preceding claims, wherein the second PIB succinimide dispersant has a TBN (KOH/g) of~~ 27 to 28.

~~24.~~ 9. The composition of any one of the preceding claims, wherein the first PIB succinimide dispersant and/or the second PIB succinimide dispersant are ~~is~~ borated.

~~25. The composition of any one of the claims 1 to 23, wherein the second PIB succinimide dispersant is borated.~~

~~26.~~ 10. The composition of ~~any of~~ claim~~s~~ 9~~24 and 25~~, wherein the first borated dispersant and second borated dispersant ~~is~~are present in an amount to deliver independently 25 to 400 (or 50 to 200) ppm boron by weight to the lubricating composition.

~~27.~~ 11. The composition of any one of the preceding claims, wherein the alkaline earth metal salicylate detergent has a TBN (KOH/g) of from 200 to 575 or 200 to 500 or a metal ratio of from 2 to 7, or 2 to 4, or 2.5 to 3.5.

~~28.~~ 12. The composition of any one of the preceding claims, wherein the alkaline earth metal salicylate is a calcium salicylate detergent having a TBN (KOH/g) of from 250 to 350 or ~~.~~

~~29. The composition of any one of the preceding claims, wherein the alkaline earth metal salicylate detergent has a metal ratio of from 2 to 7, or 2 to 4, or 2.5 to 3.5.~~

~~30.~~ 13. The composition of any one of the preceding claims, wherein the alkaline earth metal sulfonate detergent is selected from a calcium sulfonate detergent and a magnesium sulfonate detergent.

~~31.~~ 14. The composition of any one of the preceding claims, wherein the alkaline earth metal sulfonate detergent is a calcium sulfonate detergent having ~~.~~

~~32. The composition of claim 31, wherein the calcium sulfonate detergent has~~ a TBN (KOH/g) of less than 200 or ~~.~~

~~33. The composition of any one of claims 31 and 32, wherein the calcium sulfonate detergent has a TBN (KOH/g) of~~ less than 150, or less than 100, or less than 80 or ~~.~~

~~34. The composition of any one of claims 31 to 33, wherein the calcium sulfonate detergent has a TBN (KOH/g) of~~ from 50 to 90.

~~35. The composition of any one of claims 31 to 34, wherein the calcium sulfonate detergent is present in the lubricant composition in an amount of from 0.5 wt% to 2.0 wt %, or 0.6 wt% to 1.5 wt%.~~

~~36.~~ 15. The composition of any one of claims 1 to 30, wherein the alkaline earth metal sulfonate detergent is an overbased magnesium sulfonate detergent having a ~~.~~

~~37. The composition of any one of claims 1 to 29 and 36, wherein the overbased magnesium sulfonate detergent as a~~ TBN (KOH/g) of 200 to 500, or 250 to 400, or 250 to 350, or 350 to 375.

~~38. The composition of any one of claims 1 to 29, 36, and 37, wherein the overbased magnesium sulfonate detergent is present in the lubricating composition in an amount of from 0.05 wt% to 0.2 wt%, or 0.06 wt% to 0.1.~~

~~39.~~ 16. The composition of any one of claims 1 to 30, wherein the alkaline earth metal sulfonate comprises a mixture of 0.6 wt% to 1.5 wt % of a calcium sulfonate detergent having a TBN (KOH/g) of from 50 to 100 and 0.05 wt% to 0.1 wt % of an overbased magnesium sulfonate detergent having a TBN (KOH/g) of from 250 to 350.

~~40.~~ 17. The composition of any one of the preceding claims, wherein the total alkaline earth metal soap of the lubricating composition is from 0.6 wt % to 1.5 wt % or 0.7 wt % to 1.4.

~~41.~~ 18. The composition of any one of the preceding claims, wherein the phosphorus antiwear agent is a zinc dialkyldithiophosphate in an amount to deliver from 400 ppm to 850 ppm, or 450 ppm to 800 ppm, or 500 ppm to 800 ppm, or 550 ppm to 780 ppm, or 650 ppm to 780 ppm to the lubricating composition.

~~42.~~ 19. The composition of any one of the preceding claims, wherein the total sulfated ash is between 0.3 to 0.9 wt % or 0.4 to 0.8 wt %.

~~43.~~ 20. The composition of any one of the preceding claims, wherein the HTHS is less than 2.5, or less than 2.3, or less than 2.1 or ~~.~~

~~44. The composition of any one of the preceding claims,~~ wherein the HTHS is from 1.4 to 2.5, or 1.6 to 2.1, or 1.8 to 2.1, or 1.9 to 2.0.

~~45. The composition of any one of the preceding claims, further comprising an ashless friction modifier.~~

~~46. The composition of any one of the preceding claims, further comprising a dispersant other than the first PIB succinimide dispersant and the second PIB succinimide dispersant.~~

~~47. The composition of any one of the preceding claims, further comprising one or more additional additives selected from an antioxidant, a foam inhibitor, and a corrosion inhibitor.~~

~~48. The compositions of any one of the preceding claims, wherein the kinematic viscosity at 100°C is from 2.5 to 8.3 cSt or 3.5 to 6.5 cSt.~~

~~49.~~ 21. A method of lubricating a diesel engine comprising supplying to the engine a lubricant composition according to any one of the preceding claims.

~~50.~~ 22. Use of the lubricating composition according to any one of claims 1 to 48 for improving one or more of fuel economy in a diesel engine and wear protection in a diesel engine.