

CLAIMS**WHAT IS CLAIMED IS:**

- 5 1. A lubricating oil composition comprising:
- (a) a major amount of oil of lubricating viscosity,
 - (b) a calcium containing detergent,
 - (c) at least 800 ppm of Mg from a magnesium containing detergent
 - (d) less than 600 ppm of N from a nitrogen containing dispersant;
- 10 wherein the lubricating oil composition has a phosphorus content of from 0.06 to 0.15 wt. %, a sulfur content of less than 0.5 wt. % and a sulfated ash content of from greater than 0.8 wt. % to 2.0 wt. %, wherein the mass ratio of Ca to Mg is from 1:2 to 4:1, and wherein said lubricating oil composition lubricates the crankcase of an internal
- 15 combustion engine of a vehicle and at least one of a wet clutch, brakes, torque converters, gear systems, hydro static transmissions and hydraulic systems.
2. The lubricating oil composition of claim 1, wherein the calcium containing detergent is present from at least 1000 ppm lubricating oil composition.
- 20 3. The lubricating oil composition of claim 1, wherein the total base number (TBN) of the lubricating oil composition is from 8 to 16 mg KOH/g.
4. The lubricating oil composition of claim 1, wherein the sulfated ash is from about 0.80 to
- 25 about 1.60 wt. % as determined by ASTM D 874.
5. The lubricating oil composition of claim 1, wherein the vehicle is an industrial machinery, an automobile, a truck, or other vehicle.
- 30 6. The lubricating oil composition of claim 5, wherein the industrial machinery is a transport, a construction or an agricultural machinery

7. The lubricating oil composition of claim 1, wherein the vehicle is equipped with an automatic transmission, or a continuously variable transmission.
- 5 8. A method for maintaining friction in a vehicle comprising lubricating said vehicle with a lubricating oil composition comprising:
- (a) a major amount of oil of lubricating viscosity,
 - (b) a calcium containing detergent,
 - (c) at least 800 ppm of Mg from a magnesium containing detergent
 - 10 (d) less than 600 ppm of N from a nitrogen containing dispersant;
- wherein the lubricating oil composition has a phosphorus content of from 0.06 to 0.15 wt. %, a sulfur content of less than 0.5 wt. % and a sulfated ash content of from greater than 0.8 wt. % to 2.0 wt. %, wherein the mass ratio of Ca to Mg is from 1:2 to 4:1, and
- 15 wherein said lubricating oil composition lubricates the crankcase of an internal combustion engine of said vehicle and at least one of a wet clutch, brakes, torque converters, gear systems, hydro static transmissions and hydraulic systems.
- 20 9. The method of claim 8, wherein the calcium from the calcium containing detergent is present from at least 1000 ppm lubricating oil composition.
10. The method of claim 8, wherein the vehicle is an industrial machinery, an automobile, a truck, or other vehicle.
- 25 11. The lubricating oil composition of claim 10, wherein the industrial machinery is a transport, a construction, or an agricultural machinery.
12. The method of claim 8, wherein the vehicle is equipped with an automatic transmission, or a continuously variable transmission.
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