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## **Q & A TECHNICAL BULLETIN – ALCOHOL & NITROUS OXIDE IN RACING OIL**

### **Q: What if I have alcohol or nitro methane?**

A: Never use synthetic base oil with alcohol or nitro methane, synthetic base oils are “allergic” to them. Historically and chemically, alcohol will eat into and break down synthetic base oils.

- That is why after using a synthetic base oil product, you will discover within a short period of time oil pressure fluctuations and viscosity break down.
- This is simple a chemical FACT.
- For alcohol racing applications you should use a straight mineral / petroleum premium type base oils (group III). Alcohol will not break down these base oils.
- Further you need diamond like additives to improve the surface technology and protect the components with extreme levels of zinc/phosphorus

### **Q: Does the same principal apply for Heavy Nitrous Oxide Use?**

Yes – the same general principal applies.

### **Q: Is there any exceptions for the use of alcohol or methane with synthetic racing oil?**

A: Yes, sophisticated fuel injection systems which a computer controls the fuel and air ratios precisely as used with Honda (IndyCar) or similar professional race engineered systems.

### **Q: What is the basic chemical reason for this problem?**

A: Mineral – Natural Petroleum oil molecules (still rich with original paraffin and other basic properties etc.) – even highly refined (up to Group III) have the ability to with stand the extreme abuses of the (Alcohol or Nitrous) attack when soaked into the oil.

Synthetic ( Super refined / man made) oil molecules (Group IV) even though they have improved performance in certain areas – DO NOT have the ability to withstand the extreme abuses of the (Alcohol or Nitrous) attack when soaked into the oil.

**THIS IS A BASIC CHEMICAL FACT.**