



## SynMax Performance Lubricants, LLC

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### **Q & A TECHNICAL BULLETIN:**

## **COMPETITION RACE PRODUCT QUALITY CONTROL & PACKAGING**

### **Q: Is there a settling of additives that can happen?**

A: Yes, there is a settling of additives that can happen – you must remember additives (micro sized minerals or chemicals) are heavier than the oils they are placed into. Over time in storage there will be a settling to the bottom. Some exotic and advanced additives that are used with racing and commercial oils have this problem unless addressed. That means, you could have a 5 gallon pail or 55 gallon drum and if it sits for too long, additives will settle. So you possibly could have three different levels of product quality from the top, middle and bottom (especially with light weight synthetics).

### **Q: Could base oil become over saturated with additives?**

A: Yes, there are situations where the oil ( in competition racing level additive packages) itself can get to the point where of additive over saturation, if that happens a simple shaking of the container to physically re-blend the product is appropriate – it does not mean anything is wrong nor will additive fall out in use.

### **Q: Could quality control in packaging help the problem?**

A: Yes, it is best immediately right after blending to package same day in gallons and seal tight. Then the customer will be assured of exact quality control for each gallon purchased.

### **Q: I purchase in Quarts is that the same?**

A: not really – what happens is the oil after blending is placed in a small tanker or 55 gallon barrels or totes ( 330+ gallon containers), then shipped to a separate packaging facility which could sit around for a week to a month. Additives within the oil begins to settle, unless the final packaging facility re stirs the oil to put everything back into blend ( which normally does not happen) – when the oil is pumped into the bottles or containers etc. you could have a variety of additive level qualities in each bottle and case.

### **Q: I like to purchase in 55 gallon bulk to make things easy.**

A: Problem is that (especially for racing formulations) you will have irreversible additive settling within the 55 gallon drum; unless you have a proper blending facility you cannot guarantee quality in each gallon. Further, unless you maintain strict container cleanliness you will have cross-contamination problems.

### **Q: how can all of this be solved to keep additive and product quality level?**

SynMax addressed these problems and made the decision to have the ultimate procedures in quality control. Each product the same day it is blended is packaged in 1 gallon or 5 quart bottles. This keeps each gallon no matter when you use it level in additive quality control. Natural / frosted bottles are used so you can see the product or if there is any additive settling etc from long term storage.

### **Q: Why did SynMax go through all of this effort?**

A: When dealing with the highest levels of motorsports and automotive engineering, you cannot afford for even one gallon of product to be off. SynMax discovered through multiple oil testing of major and specialty oil brands that you could have variables from one oil sample of case / container of product to the next. SynMax goal was reduce these problems greatly by implementing the best in quality and packaging control procedures.