

Why race Gas?

We often get asked why *Mag 7* does not provide pump gas to racers who run virtually stock motors. Excellent question, and the answer has many dimensions. Here is a summary of the reasons we feel Sunoco race fuels are the best for Racing Baja:

1. We want all racer's motors to run exceptionally well. A quality fuel is very important to a quality finish. We will not take short-cuts that could cause our racer's engines to fail.
2. The Sunoco 100 octane (which we purchase fresh each race), is a blend that was made up by Tim Wooz head chemist for Union, for Bryant Petroleum. The only product that has changed is UNION to SUNOCO. It is 94 Motor Octane and 100 RON Octane. Road octane is 97. It has 1.5 grams of lead (just enough to lube the valve seats). In 8 years we have not lost a motorcycle engine and reports show clean burning and clean combustion chambers.
3. Pump gas has no lead to protect the valves. A small amount of lead is good for the engine, but that is why race fuels must never be put in vehicles with catalytic converters or O2 sensors.
4. It is not legal for our pit-crews, racers, or chase vehicles to import into Mexico fuel from the USA. We must buy fuel in Mexico.
5. We would never put Pemex fuel in a race car. Its quality, storage, and delivery methods are far too variable to rely upon.
6. Pump gas is not designed for power. It is designed to burn clean. Race fuels are designed for a powerful burn during the power-stroke of the engine.
7. Regarding 92, 100, or 110 octane uses: As long as the fuel has a high enough octane to prevent pre-detonation while being compressed, it will provide the same amount of power as a higher octane fuel. Compressing a fuel creates heat, which can lead to detonation, so race fuel has additives that stabilize it while being compressed. This prevents early detonation and allows higher power through higher compression. But if you don't have a high compression motor, then other advantageous tools can be used, like advance in timing, since the fuel has a built in characteristic to prevent detonation.
8. Our race-fuel provider handles the licensing to transport and delivery of the very large volumes of fuel we use during the race. He delivers it to convenient staging areas, greatly reducing the time, cost, danger, and liability.

