

ENGINEMAXX

ENGINE OIL ADDITIVE

Power Up **EngineMaxx™** is Specifically Engineered to:

- **Reduce Downtime and Catastrophic Failure**
- **Enhance Fuel Economy**
- **Eliminate Dry-Starts**
- **Extend Oil Service Life**
- **Protect at Extreme Temperatures**
- **Reduce Corrosion**
- **Improve Energy Efficiency**

EngineMaxx™ is comprised of a carefully balanced, full featured additive package. EngineMaxx™ provides significant benefits and peace of mind that your equipment will efficiently perform no matter how extreme the conditions.

Reduce Downtime & Catastrophic Failure

Advanced extreme pressure boundary additives provide unequalled protection in high load/high friction conditions. Proper lubrication under extreme conditions reduces mechanical malfunctions and failures.

Enhance Fuel Economy

Anti-Wear components control scuffing and wear under light to extreme loading conditions providing enhanced piston and cam shaft lubrication. By reducing frictional losses and minimizing wear, an increase in combustion efficiency can be realized resulting in improved power and reduced fuel consumption.

Eliminate Dry Starts

Polar anti-wear & extreme pressure additives are attracted to the polar magnetic surfaces of the engine and are able to strongly adhere providing a protective lubricating interface. This allows for significant friction reduction and protection of vital engine components during start.

Extend Oil Service Life

Oxidation inhibitors and an enhanced alkaline reserve prevent oil breakdown and neutralize the formation of acids. Increased performance of the basic lubricating components allow for an increase in the useful lifetime of the oil.

Protect at Extreme Temperatures

Viscosity index improvers maintain lubricant flow and shear stability over wide temperature ranges.



Nastelga Racing run their oil one time for a 1/4 mile. The force is so great on the bearings that the oil pan must be dropped, bearings and oil changed, and usually the crank shaft replaced (because it would snap due to the extreme pressure).

After applying **EngineMaxx™** they only have to change the bearings and oil. This saves a minimum of one hour of labour and over \$500 for a new crank shaft.

After a detailed oil analysis, they **reduced the wear metals in the oil by over 95.5%**



Reduce Corrosion

Rust and Corrosion inhibitors protect against the adverse effects of moisture (condensation build up in oils) and oil oxidation caused by free wear metals present in the oil.

Improve Energy Efficiency

Detergents and dispersants maintain cleanliness of the system, keep contaminants in suspension, and remove varnish build up in old engines.

APPLICATION:

EngineMaxx™ is intended for use in internal combustion engine crankcases each time the oil is changed. Apply at 3-5% of the oil volume, depending on the severity of service.

EngineMaxx™ is compatible with mineral and synthetic oils based on polyalphaolefins and diesters. At recommended application rates, engine oil viscosity ratings and typical engine seal materials remain unchanged.

Available in the following convenient sizes:

- 150ml (5 oz.) bottle
- 1 Litre (35 oz.) bottle
- 4 Litre (1 Gallon/135 oz.) jug
- 20 Litre (5.5 Gallon/700 oz.) pail
- 205 Litre (56 Gallon/7,175 oz.) drum

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EXTREME LUBRICATION PROTECTION

In independent Contact Gamma wear tests, EngineMaxx™ significantly reduced the amount of wear generated when used with a typical engine oil. Calculated estimates based on wear reduction (suggest that the use of EngineMaxx™ can extend equipment life up to 7 times by reducing typical friction losses that occur in normal day to day operations.

A series of dynamometer and ultrasonic noise tests were carried out to determine the effect of EngineMaxx™ on a diesel highway tractor engine. The application of 3% EngineMaxx™ increased the horsepower and torque, while reducing fuel consumption, ultrasonic wear noise and emissions. Some of the computer controlled and corrected dynamometer results are given in Figures 1 and 2.

"Since adding **EngineMaxx** to my truck engine, **my fuel economy has improved 1/2 mile to the gallon** from 5.9 miles per gallon to 6.4 miles per gallon. In the past, on cold mornings, I had problems with the truck starting up.

Now with the addition of **EngineMaxx**, it starts right up every morning, even in temperatures as low as -18°C."

Kevin Lovell / K&S Trucking - Yuma, Colorado



FIGURE 1: CORRECTED WHEEL HORSEPOWER VS. RPM

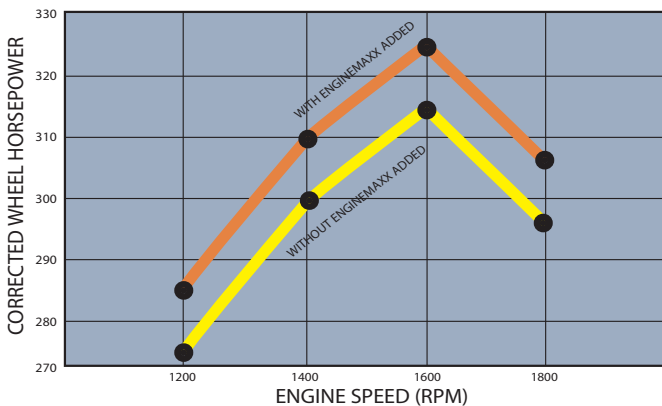
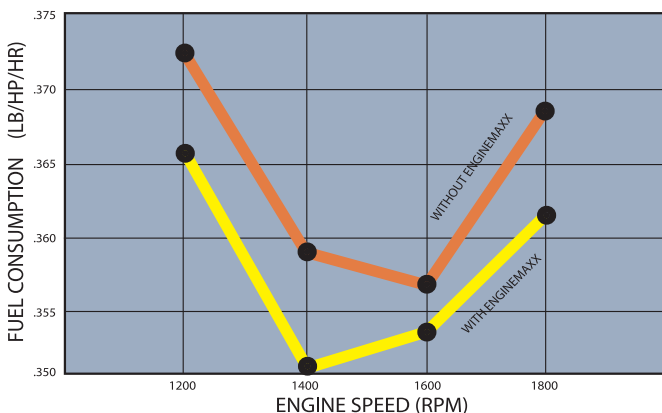


FIGURE 2: FUEL CONSUMPTION VS. RPM



Special Notations on ENGINE MAXX

Viscosity:	A 3% application of EngineMaxx in typical SAE 30 to SAE 50 weight oil results in negligible change in viscosity and viscosity index of the oil.
Alkaline Reserve:	Power Up EngineMaxx is blended with an acid scavenger to neutralize blow-by gases and acidic oil degradation products. The addition of 3% EngineMaxx will increase the base number of engine oils by about 0.5 mg KOH/g.

Power Up **EngineMaxx**™ is a unique boundary lubricant which is specifically formulated to for a wear reducing, protective film capable of withstanding extreme pressures as high as 200,000 lbs per sq. inch. **EngineMaxx**™ provides critical engine parts such as the ring zone, camshaft lobes, turbocharger, piston rods and hydraulic valve lifters with hydrodynamic lubrication protection far exceeding that of conventional oils.