

METATRON™ 809

DESCRIPTION:

Metatron™ 809 is a highly fortified extreme pressure oil additive treatment that is recommended for use with all types of petroleum base and synthetic base oils, (with the exception of polyalkylene glycol synthetic base fluids), that are used the lubrication of in automotive and industrial gasoline and heavy duty diesel engines, enclosed gear drives, hydraulic systems, compressors and circulating oil systems

COMPETITIVE OIL TREATMENT ADDITIVES:

Many competitive oil treatment additives claim to prevent oxidation, oil thickening, reduce friction and wear, and prolong engine life through the use special additive systems that either fortify the engine oil or treat the metal surfaces of the engine. Many of these additives contain sulfur, phosphorous, chlorine, lead, or zinc dialkyldithiophosphate (also known as ZDDP) containing additives. Though these additives chemically react with the metal surfaces of the engine in order to prevent wear their use over time can cause problems.

The environment within an internal combustion engine consists of high operating temperatures, combustion and blow-by gases, moisture, acid and oxidation precursors, wear debris, unburned fuel, etc. The combination of these ingredients combined with the catalytic effects of metallic surfaces and trace soluble metals such as copper can cause these sulfur, phosphorous, chlorine, lead or ZDDP containing additives to hydrolyze and form corrosive byproducts and other associated reaction products. Once generated, these acidic reaction byproducts can cause serious internal engine corrosion problems and promote oxidation of the engine oil.

In enclosed gear drive applications, compressor applications and hydraulic system applications the conditions for high operating temperatures, moisture and the formation of acidic components also exist. Just as in an engine the combination of these ingredients combined with the catalytic effects of metallic surfaces and trace soluble metals such as copper can cause these sulfur, phosphorous, chlorine, lead or ZDDP containing additives to hydrolyze and form corrosive byproducts and other associated reaction products. Once generated, these acidic reaction byproducts can cause serious internal engine corrosion problems and promote oxidation of the lubricant.

THE USE OF METATRON 809 MAKES A GOOD OIL BETTER:

Metatron™ 809 contains a highly specialized additive package that does not contain of the harmful ingredients found in competitive engine oil additive treatments. When used at the recommended treatment rate **Metatron™ 809** additive package will fortify the oil making a good oil better by providing the following performance benefits:

1. Increased compression by forming a maintaining a better seal in the ring area
2. Reduced oil consumption by maintaining the lubricant's viscosity control.
3. Reduced blow-by. (engines)
4. Increased oil pressure.
5. Elimination of sticking valves and lifters.
6. Increased power.
7. Less wear

REDUCED FRICTION AND WEAR; BETTER EXTREME PRESSURE PROTECTION WITH MICRO MOLY:

To complement the highly specialized additive package contained in **Metatron™ 809** a proven frictional modifier Micro Moly is further blended in the **Metatron™ 809**. Micro Moly is a liquid soluble type of moly that plates itself to sliding and rubbing metallic surfaces of the engine, gear box, hydraulic system, compressor, and circulating oil systems. Once plated to the metal surfaces Micro Moly forms a long lasting solid lubricant film that is capable of withstanding pressures up to 500,000 pounds per square inch which is far above those solid lubricant films that are formed by the use of graphite or Teflon containing additives. This long lasting solid lubricant film prevents the metal surfaces of the part being lubricated from coming into contact with each other. By preventing metal-to-metal contact, damaging frictional wear is eliminated, thus leading to less downtime and longer equipment life.

TREATMENT LEVEL:

Metatron™ 809 can be added directly to the existing oil although it is preferable to use with either new or slightly used oil. **Metatron™ 809** should never be used in an oil or a piece of equipment that is nearing its useful service life.

Use 0.5Liters (approximately 1 pint) of **Metatron™ 809** to every 5Liters (approximately 5 quarts) of oil.

TYPICAL PROPERTIES:

API Gravity @ 15°C (60°F) ASTM D-287)	29.2
Specific Gravity @ 15°C (60°F)	0.88
Flash Point °C (°F) ASTM D-92	246° (475°)
Fire Point °C (°F) ASTM D-92	266° (510°)