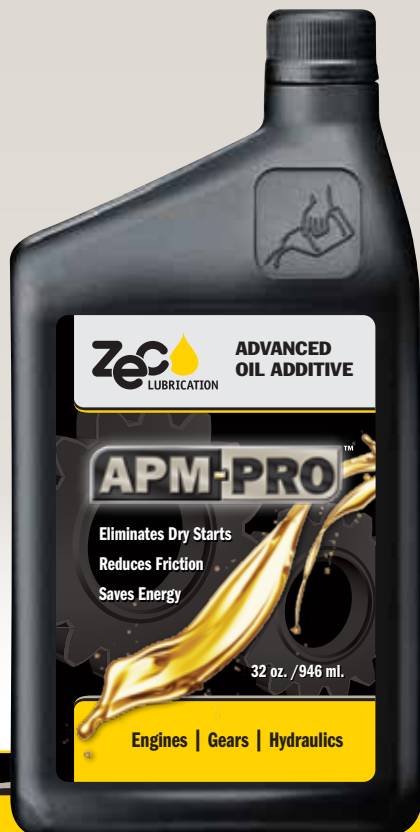




**APM-PRO**<sup>TM</sup>

**APM-PRO** is an industrial-grade oil additive that uses active polar molecule technology (APM) to significantly reduce wear and friction, resulting in the dramatically improved performance of engines, gears and hydraulics. The **APM-PRO** formula has been proven in industry applications for over 15 years, while independent test data has shown it can reduce friction by 45%.

**Eliminates dry start-ups**  
**Reduces friction and wear**  
**Improves energy efficiency**



**APM-PRO**<sup>TM</sup>  
**APPLICATIONS**

- Gasoline, Diesel or Natural Gas Engines
- Gearboxes, Transmissions, Differentials
- Hydraulic Pumps, Motors, Valves and Cylinders

**USAGE INSTRUCTIONS**

Add **APM-PRO** to the machine's lubricating oil at the percentages below. If oil volume is critical, drain oil equal to the amount of **APM-PRO** being added.

Application	APM-PRO Ratio
Engine (<6 L)	3%
Engine (>6 L)	6%
Hydraulic system	3%
Gearbox, differential, manual transmission, transfer cases	8%
Compressors	6%
Automatic transmission 2 Stroke engine	<a href="http://www.zeclubrication.com">www.zeclubrication.com</a> for usage ratios

**CAUTION:** Keep out of the reach of children. Contains hydrocarbon derivatives. Flush eyes, wash skin with soap and water. If ingested do not induce vomiting and call a physician immediately.

**APM-PRO** does not contain any chlorides, particulates, sulfur, heavy metal or PTFE. It will not change any tolerances or affect gasket materials. It also does not contain any toxic, flammable or hazardous material.

Contact [support@zeclubrication.com](mailto:support@zeclubrication.com) or **1-855-863-5111** if you have questions.

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## How APM-PRO is Different

Unlike oil treatments that only seek to fortify a lubricant oil with thickness and particulates, ZEC Lubrication oil additives treat and protect where the friction damage actually happens on the engine's metal surfaces. The existing oil is used as a carrier to distribute the metal conditioners throughout the equipment, resulting in reduced friction and improved overall performance.



### Technology Overview

ZEC Lubrication oil additives use Active Polar Molecule (APM) technology to electrochemically bond a molecular layer to all metal surfaces that are lubricated by the primary lubricant. The result is superior anti-friction, extreme pressure, anti-corrosive and boundary lubrication properties to meet the ever increasing high demands of today's harsh industrial applications.

Due to their ability to create an electrochemical bond with metal surfaces at a molecular level, ZEC Lubrication oil additives create a significantly lowered co-efficient of friction. This occurs because a bonded ZEC Lubrication layer protects and prevents the surface-level microscopic jagged peaks (known as "asperities") from interlocking with opposing asperities while in contact with other metal parts. Instead of interlocking and breaking off even more, larger asperities, the jagged peaks are allowed to deform smoothly and become rounded and flat by the process of plastic deformation.

#### Metal Surface **BEFORE** ZEC Lubrication

Opposing metal peaks rub and break off causing harmful friction heat, metal wear and oil degradation.



### HOW ZEC Lubrication TECHNOLOGY WORKS

#### Metal Surface **AFTER** ZEC Lubrication

Jagged peaks are protected by the ZEC Lubrication layer and are then smoothed out dramatically allowing metal parts to slide past smoothly on the ZEC Lubrication molecular layer.



### Benefits

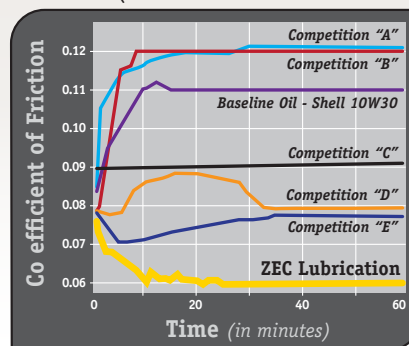
- Does not contain chlorine, sulfur, phosphate, PTFE, other particulates and chlorinated paraffins
- Drastically reduces friction and eliminates dry start up wear
- Can be added to virtually any lubricant
- Lowers operating oil temperatures and reduces oil oxidation
- Reduces wear metals suspended in oil
- Reduces exhaust emissions
- Maintains seal pliability
- Inhibits corrosion/rust and leaves no deposits
- Improves fuel efficiency and performance
- Reduces maintenance and down time

### Proven by Independent Test Data

The ZEC Lubrication oil additive formula has been thoroughly tested to meet the demands of industrial use. Included among the many tests performed was the Anti-Friction (ASTM-D 4172-B Co-efficient of Friction-Four Ball Wear) test and the Extreme Pressure (ASTM-D 3233 Falex Pin & V-Block) test.

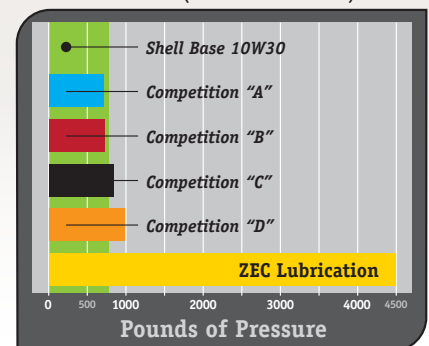
#### ANTI-FRICTION TEST

ASTM-D 4172B (Co-efficient of Friction-Four Ball Wear Test)



#### EXTREME PRESSURE TEST

ASTM-D 3233 (Falex Pin & V Block Test)



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