



**Bell Performance, Inc.** tel 407-831-5021  
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## Technical Bulletin - Oil Analysis & X-TRA LUBE Lubricants

Bell Performance manufactures a product line of quality high-performance lubricants under the label of **XTRA-LUBE**. This product line includes the following:

- **X-TRA LUBE** Concentrate (oil additive)
- **X-TRA LUBE** Pre-Mix (oil additive)
- **X-TRA LUBE** Truckers Best (oil additive)
- **X-TRA LUBE** Grease

The above products are the most complete products of their kind on the market today. They have unique “healing” properties that literally repair scratches, scores, imperfections and high-wear areas on metal surfaces. Micro-metallic particles of copper and lead fill voids and irregularities on the metal surface, making surfaces smoother and restoring them to their original manufactured clearances. This means a better ring seal, improved compression and a vastly superior lubrication surface. The superior lubricating qualities of the lead particles in **XTRA-LUBE** coat metal surfaces in the engine, including:

- Rod bearings and crankshaft journals
- Valve lifters and rocker arms
- Piston rings and cylinder walls
- Gears and spindles

These surfaces will now have lead rubbing against lead, creating the very best lubrication environment possible. This benefit can be demonstrated analytically by using equipment such as a friction brake machine, which measures the amount of pressure needed to break the boundary lubrication of lubricants and cause excess wear. Typical lubricating oils and greases in the marketplace fail at 30-40 foot pounds of pressure, while **X-TRA LUBE** will exceed 100 foot pounds of pressure before failing, due to the superior lubricating and friction-dissipating power of its formula.

In addition to the super-lubricating micro-metallic particles, **X-TRA LUBE** oil additives contain superior anti-friction, anti-wear and anti-corrosion agents. Its detergent cleans metal surfaces, while its emulsifiers and surfactants help suspend soot in the oil, preventing damaging wear. Anti-foaming agents reduce foaming in the oil caused by entrained air, which can break down the oil under high-speed operation.

### Common Questions and Concerns

#### *1. Will the use of this product affect my oil analysis?*

Elevated levels of certain metals detected in an oil analysis can normally be indicative of wear problems in the engine. Excess iron and aluminum indicates wear of cylinders, pistons and linings. Copper, lead, tin and (in some engines) silver can indicate wear on crucial engine bearings, bushings and valve guides. Acceptable baseline levels of these metals will range from less than 100ppm for lead, under 50ppm for copper, under 30ppm for tin and under 5ppm for silver.

Because **X-TRA LUBE** contains super-lubricating copper and lead particles, it will cause an oil analysis to show elevated levels of these two metals, typically at levels of 300-400ppm. The analysis report may warn of excessive bearing wear due to the high readings. But these elevated levels do not necessarily mean there is excessive bearing wear. The key indicator to look for is Tin (and Silver for some engines). **X-TRA LUBE** does not contain either of



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these two metals. If the tin and silver levels remain normal, there is no cause for concern with regards to excess bearing wear.

Since each engine is different, it is helpful to take multiple oil analyses over time to establish a baseline. Therefore, when adding **X-TRA LUBE** for the first time, don't be concerned about elevated copper and lead levels, especially if the tin is in the normal range for the engine. It will take 3 to 4 analyses with **X-TRA LUBE** to re-establish the new trend line for copper and lead.

## ***2. What are some of the benefits of using the X-TRA LUBE Oil Additive?***

Use of **X-TRA LUBE** oil additive gives a wide range of benefit, including but not limited to:

- Eliminates dry starts and reduces friction (due to micro-metallic particles plating the metal surfaces with advanced lubrication)
- Lowers engine operating temperatures up to 60 degrees F (due to reduced friction)
- Cleans metal surfaces
- Prolongs bearing life and quiets noisy bearings
- Reduces noise and vibration
- Seals engine rings
- Increases compression (due to micro-metallic particle action)
- Reduces oil consumption
- Frees sticky valves

## ***3. What are the advantages to using X-TRA LUBE Grease over other products?***

**X-TRA LUBE** Grease's operational temperature range is the best on the market, and its lubricating properties will outlast and outperform virtually every other grease on the market today. **X-TRA LUBE** Grease contains the same advanced technology as the oil additive; thus, all of the benefits resulting from using micro-metallic particles for lubrication will be gained through use of the grease as well.

The grease is effective throughout a wide temperature range from 40 degrees F to over 500 degrees F. It is still pumpable at low temperatures and possesses an extremely high drop point. You can use it with confidence in both hot and cold environments. **X-TRA LUBE** Grease also retains high performance in high-moisture environments as well, with excellent water washout characteristics. It is very suitable for marine, industrial, mowing, construction, farming, and heavy duty truck applications.

## ***4. Where have the X-TRA LUBE products been used?***

**X-TRA LUBE** has been proven to be the very best lubricant of its type on the market. It has repeatedly outperformed all of its competitors in virtually every application imaginable. The product has been used in:

### **Vehicles**

Trucks  
Buses  
Cars  
Motorcycles  
Airplanes

### **Marine**

Pleasure Boats  
Large Ships  
Tug Boats



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#### **Racing**

Nascar  
Drag Racing  
Monster Trucks  
Tractor Pulls  
Off-shore Racing  
Aircraft

#### **Industrial Applications**

Power Plants  
Paper & Pulp Mills  
Construction Equipment  
Locomotives  
Machine Shops  
Hydraulic Applications

#### **5. In which vehicle applications can I use X-TRA LUBE products?**

**X-TRA LUBE** products can be used with confidence in pumps and differentials, motors, gearboxes, hydraulic units, manual transmissions, wheel bearings (wet and dry), and any place where oil is used as a lubricant.

#### **6. Will this product make engine waste oil hazardous?**

The **X-TRA LUBE** products contain lead in an elemental, non-hazardous form. In this form, it will not osmose (be absorbed) through your skin; hence, it is non-hazardous. Additionally, it passes the TCLP (Toxic Chemical Leaching Procedure) test. Therefore, use of **X-TRA LUBE** will not change the classification of normal waste oil.

#### **7. Will it harm any of my equipment?**

**X-TRA LUBE** products have been in wide consumer use since 1983. There has never been a reported failure related to its use, so use them with confidence.

***Bell Performance....because it's all about performance!***