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# Engine Oil Protectant FOR TURBO CHARGED ENGINES

REVITALIZES ADDITIVE-DEPLETED ENGINE OILS



LUBEGARD Engine Oil Protectant for Turbocharged Engines is specifically formulated with chemistry known to reduce and prevent LSPI. It protects engines and components from repeated knocks and prevents oil from aging prematurely, providing long-term protection against LSPI/engine knock. Protect your engine with LUBEGARD!

## BENEFITS

- » For use in all turbocharged engines
- » Reduces low-speed engine knock
- » Revitalizes worn-out engine oils
- » Extends oil life
- » Protects engines from wear
- » Does not contain zinc which is harmful to catalytic converters
- » Contains Moly known to reduce LSPI/engine knock
- » Reduces wear on pistons, timing chains, bearings, etc.
- » Does not contain calcium known to increase LSPI/engine knock
- » Increases fuel economy due to reduced friction
- » Reduces oil consumption/volatility
- » Protects from cold starts
- » Reduces varnish and sludge
- » Will not alter motor oil viscosity even in frigid weather conditions

## DIRECTIONS FOR USE:

Replace 3 ounces (89 ml) of LUBEGARD for every quart (liter) of motor oil in the engine. For maximum benefit use with every oil change. Do not overfill. For best results use with API SN, SN+ or SP oil.

For use in all gasoline engines with conventional or synthetic oils.  
**Can be added to new or used oil.**



## AVAILABILITY

Stock No.	Unit Size	Case Qty
30015	15 oz	12



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# Is your engine knocking? THAT COULD BE LSPI (low-speed pre-ignition)

Low-Speed Pre-Ignition (LSPI) or low-speed engine knock is one of the most serious problems associated with today's Turbocharged Gasoline

Direct Injection (TGDI) engines in brand new as well as older vehicles. The pressure spikes caused by pre-ignition can cause severe and often catastrophic damage to pistons, timing chains, head gaskets, bearings, etc., leading to costly repairs or engine replacements. Studies concluded that certain elements commonly found in motor oils and other oil additives contribute to LSPI frequency.

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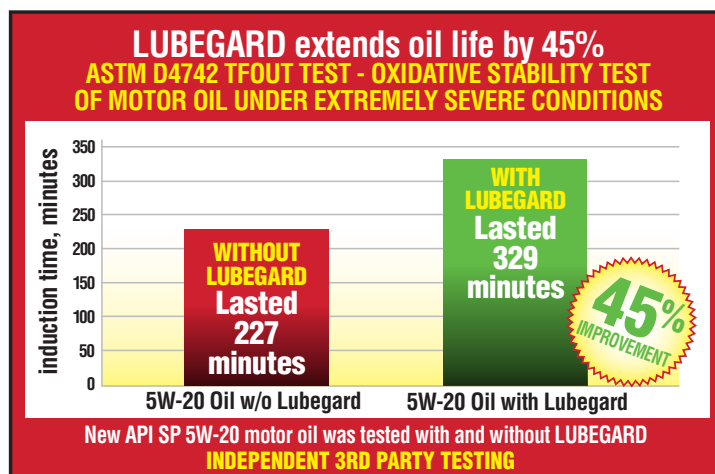
It protects engines and components from repeated knocks and also prevents oil from aging prematurely, providing long-term protection against LSPI/engine knock. Protect your engine with LUBEGARD Engine Oil Protectant for Turbocharged Engines!



## Extends oil life by 45% and increases oxidative stability

A key performance aspect of an engine oil additive is the ability to extend the life of the oil. We performed a Thin-Film Oxygen Uptake Test (TFOUT) on brand new, SP rated motor oil with and without the addition of LUBEGARD®. TFOUT is the ASTM D-4742 bench test commonly used by oil formulators to measure oxidative stability of engine oil. The oil sample is exposed under pressure, to fuel, metal catalysts, water, oxygen, and heat, resulting in accelerated oxidation. The time it takes for the sample to reach a level of rapid oxidation is measured in minutes.

The motor oil with the addition of LUBEGARD® increased the oxidative stability of the untreated motor oil from 227 minutes to 329 minutes. This is a 45% improvement over untreated motor oil.



## Restores anti-wear performance by 53%

Third party testing shows that LUBEGARD® restored the anti-wear performance to used oil with 6,580 miles by 53% per the ASTM D4172 Four Ball Wear Test. The Four Ball Wear Test determines the relative wear-preventing properties of lubricating fluids.

