

## Lotus Lubes™ Hyper Ashless Gas Engine Oil

### PRODUCT DESCRIPTION

**LOTUS Lubes™ Hyper Ashless Gas Engine Oil** is a premium ashless detergent and dispersant engine oil. It is specially formulated for peak performance and ultimate protection in 2-stroke and certain 4-stroke cycle stationary natural gas engines requiring an ashless engine oil formulation.

**LOTUS Lubes™ Hyper Ashless Gas Engine Oil**, available in SAE grades 30, 40, and multi-grade 15W-40, meet and exceed the stringent performance standards of major engine manufacturer standards.

### FEATURE & BENEFITS

- \* Excellent wear protection for critical engine components
- \* Maximum resistance to sludge, ash, and varnish deposit formation
- \* Minimizes pre-ignition and detonation
- \* Maintains optimum engine cleanliness
- \* Maximum corrosion protection for sensitive bearings, including copper-lead
- \* Reduced maintenance and extended engine life
- \* Formulated exclusively with Group II base stocks for maximum resistance to oil oxidation
- \* Bright stock free formulation delivers a wide-range of operating temperatures
- \* Minimal viscosity increase during operation extends effective service intervals
- \* Special ashless dispersants minimize intake and exhaust port plugging
- \* Outstanding low-temperature performance for cold-starts (SAE 15W-40)



### TYPICAL PHYSICAL PROPERTIES

SAE GRADE	Test Method	30	40	15W-40
API Gravity		30.1	29.1	30.5
Viscosity @ 40°C, cSt	ASTM D445	100.0	120.4	103.7
Viscosity @ 100°C, cSt	ASTM D445	11.7	12.9	13.8
Viscosity Index	ASTM D2270	100	100	130.0
Flash Point, °C (°F)	ASTM D93	260 (500)	272 (522)	228 (443)
Pour Point, °C (°F)	ASTM D97	-23 (-11)	-23 (-11)	-30 (-22)
TBN, mg KOH	ASTM D2896	1.0	1.0	1.0
Sulfated Ash, wt %	ASTM D874	<0.1	<0.1	<0.1
Zinc, ppm		<5	<5	<5
Phosphorus, ppm		700	700	700

Minor variations in typical physical properties may occur from normal manufacturing processes

### APPLICATIONS

Recommended for high-output and turbocharged natural gas 2-stroke engines and certain 4-stroke engines that recommend an ashless engine oil; requiring:

- \* **Caterpillar (Do not use in series 3400, 3500, & 3600 engines)**
- \* **Colt-Fairbanks Morse (MEP)**
- \* **Dresser Rand (I & II)**
- \* **Cooper Bessemer (2-stroke)**
- \* **Clark-Dresser**
- \* **Waukesha (VR & Intermediate/Clinton)**
- \* **Worthington (2-stroke)**