

PRODUCT INFORMATION

ECOSE[®] GEO LA

LOW ASH STATIONARY GAS ENGINE OIL

PRODUCT DESCRIPTION

ECOSE[®] GEO LA Gas Engine Oil series are premium performance lubricants formulated with advanced additive technology and superior high quality Group II base oils that provide the ultimate in protection for turbocharged, naturally aspirated, medium and high speed, four-cycle gas engines requiring a low ash oil. The additive system utilized in **ECOSE[®] GEO LA Gas Engine Oil** has been performance proven under severe service, high demand/load, high output conditions such as ‘lean burn’ and stoichiometric four-cycle engines in co-generation and gas compression applications. The low ash, low phosphorous formula provides exceptional anti-wear protection to valve-train components, gears, bearings, pistons and rings while insuring catalytic converter compatibility and longevity.

ECOSE[®] GEO LA Gas Engine Oil is formulated to provide enhanced performance in the areas of oxidation and nitration resistance and aggressive BN retention, enabling its use in extended, engine-oil drain applications.

FEATURES AND BENEFITS

The premium base oils combined with a superior field-proven additive system provides:

- Long oil life resulting in improve drain interval optimization providing reduced maintenance and operating costs, less waste oil generation and reduced oil usage
- Lower oil volatility to reduce oil consumption and minimize combustion chamber and exhaust/emission system deposits
- Enhanced anti-wear protection in a low phosphorous formulation
- Excellent resistance to oxidation, nitration and oil thickening even under some of the most severe operating conditions
- Low impact, lower volatility phosphorous resulting in reduced exhaust catalyst degradation
- Advanced detergent/dispersant performance and excellent Base Number retention to insure ultimate engine cleanliness and reduce sludge and varnish formation, even with extended oil drain intervals.
- Formulated for stationary engines fueled by natural and synthetic gas or gas from digester and landfill sources containing low levels of sulfur and chlorofluorocarbons (CFCs).*
- Recommended in stationary gas engines where OEM specifies API CF performance.

*Note – In high (CFCs)/sour gas applications, oil with higher base reserve may be required.

APPLICATION

ECOSE[®] GEO LA Gas Engine Oil is designed for use in a wide variety of medium and high-speed, four-cycle gas engines requiring the use of a low ash oil, including those manufactured by Caterpillar, Cummins, Jenbacher, Waukesha, Deutz, Wartsila and others. Always follow equipment manufacturers’ recommendations for appropriate product quality, application and viscosity selection.

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Typical Properties

SAE Grade	Test Method	15W-40	30	40
Product Code		535491	535489	535490
Viscosity, cSt @ 40°C	ASTM D-445	105.0	93.1	128.2
Viscosity, cSt @ 100°C	ASTM D-445	13.7	11.0	13.8
Viscosity Index	ASTM D-2270	130	103	104
Sulfated Ash, Mass %	ASTM D-874	0.45	0.45	0.45
TBN	ASTM D-974	5.3	5.3	5.3
Flash Point, °F (°C)	ASTM D-92	440 (227)	451 (232)	460 (254)
Pour Point, °F (°C)	ASTM D-5949	-31 (-35)	-18 (-28)	-11 (-24)
Color	ASTM D-1500	5.0	5.0	5.0
High Temperature High Shear Viscosity, 150°C, cP		4.2	N/A	3.9
Phosphorus, ppm		270	270	270
Zinc, ppm		330	330	330
API Gravity		30.5	29.8	29.5
Density, lbs/gal (g/L)	Calculated	7.2	7.3	7.3

AVAILABILITY

ECOSE® GEO LA Gas Engine Oil is available throughout Nu-Tier marketing area. Your ECOSE representative can provide specific information. Need additional information visit Nu-tierbrands.com.