



Geoguard 500 Low-Ash

Low-Ash Natural Gas Engine Oil/ Compressor Oil

Geoguard 500 Low-Ash represents a premium line of lubricants formulated for the crankcase, the power and compressor cylinders of spark-ignited, two cycle and four cycle gas-fueled engines. These oils provide maximum resistance to oxidation and corrosion while providing excellent anti-wear performance. The full range of viscosity grades enables the user to select a lubricant that best combines the performance and economy for each engine style, fuel quality as well as the severity of its service.

This Low-ash oil combines the effective dispersant/detergent package with oxidation and corrosion inhibitors, anti-foam additives as well as anti-wear agents making it suitable for use in the engines of the major equipment manufacturers. This unique formulation is recommended for use in both the naturally aspirated and turbo charged two and four cycle engines.

The superior level of cleanliness along with the other advantages makes the **Geoguard 500 Low-Ash** the best choice for the leaner spark-ignited engines that require the low to mid ash oils.

Performance Features:

- Uses high viscosity base oils with low carbon residues to lessen the formation of carbon and varnish.
- Minimizes the oxidation of the oil thus extending its life
- Higher alkalinity reduces combustion acids created from sour gas

Customer Benefits:

- Controls deposits and minimizes wear of pistons, rings and liners.
- Increased resistance to oil nitration and oxidation leads to longer oil service life and reduced maintenance
- Compatible with engines equipped with catalytic converters

Applications:

Four Cycle engines (High and Medium Speed)

Caterpillar
Cooper-Besser
Cummins
Dresser-Rand: Categories I, II & III
Superior
Waukesha
Worthington
API CG

Two cycle engines: Selected models only

Ajax
Clark (Dresser Industries)
Worthington



Typical Properties

These properties are typical of the current production. Variations that do not affect product performance are to be expected

Geoguard 500 Low-Ash

Product Number	154	155	156	157	Test Method
SAE Grade	20	30	40	15W40	-
API Gravity	27.5	27.5	27	28.5	-
Sulfated Ash, % weight	0.42	0.42	0.42	0.42	-
Phosphorus, % weight	0.027	0.027	0.027	0.027	-
Nitrogen, % weight	0.08	0.08	0.08	0.08	-
Flash Point °C (F)	224/(435)	249/(480)	255/(491)	230/(446)	ASTM D92
Pour Point °C (F)	-17.8(0)	-15(5)	-15(5)	-27(-16.6)	ASTM D97
Viscosity @210°F, SUS	49	65	72	73	ASTM D445
@100°F, SUS	246	534	636	536	
Viscosity @100°C cSt	7.0	11.4	13.8	13.8	
@40°C cSt	48	101	121	104	
Viscosity Index	97	97	101	129	-
API Service	CD	CD	CD	CD	

depending on blending and manufacturing locations. The information above is subject to change without notice.

Health and Safety:

This product is unlikely to have any adverse health implications or safety hazards when used for its intended application. Avoid contact with skin, use resistant gloves when handling used oil. If skin comes in contact wash immediately with soap and water. For complete information on safe handling and product characteristics please refer to the Safety Data Sheet (SDS) found on our website. www.royalmfg.com or call (918)-584-2671.

Packaging options:



5 Gal Pails



55 Gal Drums



275/330 Gal Totes



Bulk