

Product Information



Safeguard® Ash – Less Natural Gas Engine Oils

***Outstanding Service in Natural Gas Fueled Engines
Superior Engine Cleanliness and Long Service Life
Multi-viscosity and straight grades OEM approved additive systems***

DESCRIPTION

Safeguard® Ash-less Natural Gas Engine Oils are premium performance SAE gas engine oil for low, medium and high speed engines where ashless oils are recommended. These oils are formulated with advanced technology additive system that provides ashless detergent and anti-scuff gas engine oil. They also are used in a wide variety of power generating applications where natural gas fuels are economically available.

Safeguard® Ash-less Natural Gas Engine Oils provide outstanding cleanliness and protection against piston wear and liner scuffing and keep rings free of varnish buildup. These oils offer outstanding anti-wear protection for engine bearings, valve train and other internal engine parts.

Safeguard® Ash-less Natural Gas Engine Oils are designed to provide a high level of chemical and thermal stability resulting in cleaner engines and higher engine performance. These oils are blended from OEM approved additives to minimize valve recession and reduce the possibility of spark plug fouling and pre-ignition. These oils may extend drain intervals and extend filter life according to manufacturer's recommendations.

APPLICATION

- Two stroke cycle and four stroke cycle natural gas fueled engines requiring ashless oils and manufactured.
- Intended for the lubrication of the crankcase, power cylinders, and compressor cylinders of spark-ignited, two- and four-cycle gas engines operating on clean fuel.
- Ideal for engines that drive generators for power production or gas compressors in gathering, transmission, storage, and distribution of natural gas.
- Excellent break in and anti-scuff protection for high BMEP engines

BENEFITS

- Outstanding protection for high output engines fueled by natural gas
- Outstanding antiwear protection for pistons, liners, rings, valves and other moving parts
- Ash-less formula minimizes valve recession and combustion chamber deposits
- Reduces sludge formation in top end of engine
- Suitable for use with fuels containing low sulphur levels
- Reduces spark plug fouling and pre-ignition
- Available in three viscosity grades to satisfy varying conditions and engine maker requirements



CROSS PACKAGING DIVISION

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Product Information

**PERFORMANCE
LEVELS**

Cummins L10, M11
Caterpillar
Dresser-Rand Cat. I, II, & III
Cooper-Bessemer
Ge Jenbacher
Cooper-Superior

Wartsila
Detroit Diesel 50g
Waukesha
Deutz
Worthington
Delaval Enterprises

**TYPICAL
PROPERTIES**

	METHOD	30	40	15W-40
API Gravity	D1298	28.2	27.5	31.2
Specific Gravity @15.6 °C	D1298	0.886	0.890	0.868
Viscosity cSt @ 40° C	D445	110.6	145.9	97.9
Viscosity cSt @ 100° C	D445	12.1	14.3	13.2
Viscosity cP @ -15° C	D5293	-	NA	5511
Total Base Number (TBN)	D2896	1.0	1.0	1.0
Ash, % Mass	D482	0.0	0.0	0.0
Flash Point °C	D92	256	268	232
Pour Point °C	D97	-15	-15	-29

The information on this Product Data Sheet is believed to be accurate and is typical of current production. Specifications are subject to change without notice.

Health And Safety Information See separate Material Safety Data Sheets available on request.

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