

Product Information



SafeGard™ Low Ash (LA) Natural Gas Engine Oils

*Outstanding service in natural gas fueled compressor engines
Superior engine cleanliness and long service life*

DESCRIPTION

SafeGard™ Low Ash Natural Gas Engine Oils are premium quality crankcase oils designed specifically for high-output engines using gaseous fuels. These oils are commonly used in both large and small engines powered by natural gas and compressing natural gas on distribution pipelines. They also are used in a wide variety of power generating applications where natural gas fuels are economically available.

SafeGard™ Low Ash Natural Gas Engine Oils provide outstanding protection against piston wear and liner scuffing and keep rings free of varnish buildup. These oils offer outstanding antiwear protection for engine bearings, valve train and other internal engine parts.

SafeGard™ Low Ash Natural Gas Engine Oils are safe for use on engines equipped with NSCR emission reduction systems. 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 low ash oils and manufactured.
- Engines operating on sour gas (high sulphur) may require oils with higher TBN ratings
- Four-stroke cycle and 2-stroke cycle natural gas engines where the manufacturer specifies oil meeting the service performance levels of API CF or API CD

BENEFITS

- Outstanding protection for high output engines fueled by natural gas
- Outstanding antiwear protection for pistons, liners, rings, valves and other moving parts
- Low ash 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 and CFC's
- Reduces spark plug fouling and pre-ignition
- Moderate protection of nitration generation in lean-burn and stoichiometric four-cycle engines equipped with catalytic converters
- Low phosphorous levels preserve emission catalysts with NSCR emission reduction systems



MARTIN LUBRICANTS, A Division of Martin Operating Partnership L.P.
SMACKOVER, AR 71762 ■ USA ■ PHONE 800 864-6275 ■ www.martinlubricants.com

Product Information

PERFORMANCE LEVELS	Cummins L10, M11 Caterpillar Dresser-Rand Cat. I, II, & III (SAE 30) Cooper-Bessemer GE Jenbacher Cooper-Superior	Wartsila Detroit Diesel Waukesha Deutz Worthington Delaval Enterprises			
TYPICAL PROPERTIES	Method	SAE 30	SAE 40	SAE 50	15W-40
Specific Gravity @15.6 °C	D-4052	0.8855	0.8973	0.8927	0.8708
Viscosity cSt @ 40° C	D-445	82.07	120.85	177.72	92.61
Viscosity cSt @ 100° C	D-445	10.91	13.56	16.78	14.44
Viscosity Index	D-2270	120	109	99	162
Flash Point, COC °C	D-92	260	273	250	236
Flash Point, COC °F		500	523	482	457
Pour Point °C	D-97	-36	-30	-21	-39
Pour Point °F		-33	-22	-6	-38
Total Base Number (TBN)	D-2896	2.1	2.5	3.0	5.3
Ash Content, % Mass	D-482	0.37	0.37	0.31	0.8
Phosphorous content, ppm	D-4951	390	340	390	385
Sulfated Ash, % Mass	D-874	0.01	0.01	0.01	0.01
ML Bulk Number	-	586460	586486	592190	592202

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.

This engine oil's service level is in accordance with the latest version of SAE J300 Engine Oil Viscosity Classification and SAE J183 Engine Oil Performance and Engine Service Classification.

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

Gard™ and **Martin Lubricants™** are trademarks of Martin Lubricants. All other marks are property of their respective owners.



MARTIN LUBRICANTS, A Division of Martin Operating Partnership L.P.
SMACKOVER, AR 71762 ■ USA ■ PHONE 800 864-6275 ■ www.martinlubricants.com