THOMAS
FUEL * LUBES * CHEMICALS
9701 HWY 59 N. (77905)
P.O. Box 1876 (77902-1876)
Victoria, Texas
Tel: 361-573-7662 Fax: 361-573-6803

VICTORIA 361-573-7443
RIO GRANDE VALLEY 956-399-0395
LA GRANGE 979-242-3958
LAREDO 956-717-0495
CORPUS CHRISTI 361-387-7275
BEAUMONT 409-729-4868
PERMIAN BASIN 432-561-8098
TYLER 903-592-6851
HOBBS 505-492-0058
BRIDGEPORT 940-683-5121
LAFAYETTE 337-365-3364
ARKANSAS 800-460-6851

Ashless GEO
SAE 40

Customer Benefits

Minimized ring and cylinder liner wear
Optimum engine cleanliness through use of ashless dispersant in naturally aspirated turbocharged two-stroke engines.
No ash deposits on valves, piston heads, spark plugs, combustion chambers, and port surfaces, decreasing the risk of preignition and detonation.
Ashless oxidation inhibitor reduces viscosity increase, which allows for longer oil service life.

Features

Ashless GEO oil is high quality, bright stock-free, ashless, dispersant-type gas engine oil.
It is formulated using select paraffinic base oils and an additive package consisting of an excellent dispersant, wear inhibitor, and oxidation inhibitor.
Ashless GEO is developed for use in high output, high speed, turbocharged two-stroke and select four-stroke gas engines operating at full capacity.
The completely ashless additives prevent spark plug and combustion chamber deposits that result in pre-ignition, detonation, and loss of engine power.
Ashless GEO
- performs excellent in ashless oil applications resulting in reduced overhauls and longer filter life.
- prevents valve burning by keeping valve faces clean
- extends oil life by minimizing viscosity increase with an excellent ashless oxidation inhibitor
- prevents engine corrosion
- reduces wear

Applications

Recommended for all stationary natural gas fueled engines; either 2 or 4 cycle engines in situations where the manufacturer specifies an oil with less than 0.1 percent sulfated ash level.
The product is typically suggested for use in natural gas or synthetic natural gas fueled engines including those equipped with emission catalysts located at main line natural gas compressor stations and field gathering units.
These oils meet the four-stroke capability requirements of Dresser (Ingersol)-Rand (Categories I and II), Ajax, Clark-Dresser, Caterpillar (except 3400, 3500, and 3600), Waukesha VR, and Intermediate/Clinton series.
Satisfactory performance in two-stroke engines include manufacturers such as Cooper Bessemer, Worthington, and Fairbanks-Morse/MEP.

Typical Test Data - **Ashless GEO**

SAE Grade	**40**
API Gravity @ 60°F	**26.5**
Viscosity, Kinematic	
cSt at 40°C	**136**
cSt at 100°C	**13.6**
Viscosity Index	**95**
Flash Point, °C(°F)	**249 (480)**
Pour Point, °C(°F)	**-15 (5)**
Sulfated Ash, wt %	**nil**
Acid Number (TAN)	**0.08**
Base Number (TBN)	**1.0**
Phosphorus, ppm	**255**
Zinc, ppm	**<10**

The values shown are typical of current production. Some are controlled in the manufacturing process, while others are not. All of them may vary within tolerable ranges.

THOMAS
FUEL * LUBES * CHEMICALS
9701 HWY 59 N. (77905)
P.O. Box 1876 (77902-1876)
Victoria, Texas
Tel: 361-573-7662 Fax: 361-573-6803

VICTORIA 361-573-7443
RIO GRANDE VALLEY 956-399-0395
LA GRANGE 979-242-3958
LAREDO 956-717-0495
CORPUS CHRISTI 361-387-7275
BEAUMONT 409-729-4868
PERMIAN BASIN 432-561-8098
TYLER 903-592-6851
HOBBS 505-492-0058
BRIDGEPORT 940-683-5121
LAFAYETTE 337-365-3364
ARKANSAS 800-460-6851

Competitive Comparison

Comparable means that the products have similar performance in the applications for which they were designed. It does not mean that they are compatible. When replacing lubricants, our recommendation is to drain and flush the system prior to filling with the new product.

	Thomas Ashless GEO SAE 40	*Chevron Gas Engine Oil 541 SAE 40	**Mobil Peg 701(490) SAE 40
Typical Test Data			
SAE Grade	**40**	40	40
API Gravity @ 60°F	**26.5**	31.1	27.9
Viscosity, Kinematic			
cSt at 40°C	**136**	127	132
cSt at 100°C	**13.6**	13.0	13.5
Viscosity Index	**95**	95	97
Flash Point, °C (°F)	**249 (480)**	263(505)	249(482)
Pour Point, °C (°F)	**-15 (5)**	-18(0)	-15(5)
Sulfated Ash, Wt. %	**nil**	nil	.07
Base Number, ASTM D 2896	**1.0**	1.1	2.2
Phosphorus, Wt. %	**255 ppm**	0.087 (870 ppm)	-
Zinc, Wt. %	**<0.0010 (<10 ppm)**	<0.0010 (<10 ppm)	-

Typical test data are average values only. Minor variations which do not reflect product performance are to be expected in normal manufacturing.

*Source - https://www.cbest.chevron.com/msdsServer

**Source - http://www.exxonmobil.com/pdssearch/search.asp

THOMAS
FUEL * LUBES * CHEMICALS
9701 HWY 59 N. (77905)
P.O. Box 1876 (77902-1876)
Victoria, Texas
Tel: 361-573-7662 Fax: 361-573-6803

VICTORIA 361-573-7443
RIO GRANDE VALLEY 956-399-0395
LA GRANGE 979-242-3958
LAREDO 956-717-0495
CORPUS CHRISTI 361-387-7275
BEAUMONT 409-729-4868
PERMIAN BASIN 432-561-8098
TYLER 903-592-6851
HOBBS 505-492-0058
BRIDGEPORT 940-683-5121
LAFAYETTE 337-365-3364
ARKANSAS 800-460-6851

Low Ash GEO
SAE 40

Customer Benefits

Excellent protection against scuffing, scoring and wear of pistons, rings and liners.

Compatible with NSCR emissions catalysts, due to low phosphorus level.

Minimized valve recession in four-stroke engines, with low levels of combustion chamber deposits, reducing the chance of pre-ignition and spark plug fouling.

Excellent oxidation and nitration stability, which minimizes viscosity increase, increases service life, and lowers wear rates.

Excellent piston cleanliness to prevent ring sticking and keep piston skirts clean and varnish-free.

Reduced sludge formation in the crankcase and the valve rocker cover/top deck.

Features

Low Ash GEO is a line of premium performance gas engine oils formulated to meet the requirements of high output engines fueled by natural or synthetic gas. They effectively improve engine cleanliness and provide protection of critical engine parts against scuffing and wear. Low Ash GEO is formulated with quality base stocks and utilize a low ash dispersant/detergent additive system that contributes to reduced combustion chamber deposits and protection against the buildup of engine sludge.

Applications

Recommended for all stationary natural gas fueled engines. Suitable in either 2 or 4 cycle, supercharged or naturally aspirated engines under conditions where the manufacturer specifies a low ash gas engine oil. These oils meet the performance requirements of 4-cycle engine manufacturers such as Dresser (Ingersol)-Rand (Catagories I, II, and III natural gas engines), Caterpillar, Worthington C4, Cooper-Bessemer, Superior, Cummins, and Waukesha Class A type engines. They are satisfactory for Ajax, Clark-Dresser, Worthington, and Fairbanks-Morse/MEP two cycle engines.

Typical Test Data - **Low Ash GEO**

SAE Grade	40
API Gravity @ 60°F	26.5
Viscosity, Kinematic	
cSt at 40°C	136
cSt at 100°C	13.6
Viscosity Index	95
Flash Point, °C(°F)	249 (480)
Pour Point, °C(°F)	-15 (5)
Sulfated Ash, wt %	0.50
Acid Number	0.99
Base Number	3.8
Phosphorus, ppm	229
Zinc, ppm	314

The values shown are typical of current production. Some are controlled in the manufacturing process, while others are not. All of them may vary within tolerable ranges.

THOMAS
FUEL * LUBES * CHEMICALS
9701 HWY 59 N. (77905)
P.O. Box 1876 (77902-1876)
Victoria, Texas
Tel: 361-573-7662 Fax: 361-573-6803

VICTORIA 361-573-7443
RIO GRANDE VALLEY 956-399-0395
LA GRANGE 979-242-3958
LAREDO 956-717-0495
CORPUS CHRISTI 361-387-7275
BEAUMONT 409-729-4868
PERMIAN BASIN 432-561-8098
TYLER 903-592-6851
HOBBS 505-492-0058
BRIDGEPORT 940-683-5121
LAFAYETTE 337-365-3364
ARKANSAS 800-460-6851

Competitive Comparison

Comparable means that the products have similar performance in the applications for which they were designed. It does not mean that they are compatible. When replacing lubricants, our recommendation is to drain and flush the system prior to filling with the new product.

	Thomas Low Ash GEO SAE 40	*Chevron Gas Engine Oil 555 SAE 40	**Mobil Peg 505(485) SAE 40
Typical Test Data			
SAE Grade	**40**	40	40
API Gravity @ 60°F	**26.5**	30.1	28
Viscosity, Kinematic			
cSt at 40°C	**136**	134	126
cSt at 100°C	**13.6**	13.5	13.1
Viscosity Index	**95**	95	97
Flash Point, °C (°F)	**249 (480)**	228(442)	238(460)
Pour Point, °C (°F)	**-15 (5)**	-18(0)	-15(5)
Sulfated Ash, Wt. %	**0.50**	0.43	0.46
Base Number, ASTM D 2896	**3.8**	3.3	2.7
Phosphorus, ppm	**229**	280	-
Zinc, ppm	**314**	310	-

Typical test data are average values only. Minor variations which do not reflect product performance are to be expected in normal manufacturing.

*Source - https://www.cbest.chevron.com/msdsServer

**Source - http://www.exxonmobil.com/pdssearch/search.asp