



EXCEPTIONAL STABILITY PROFOUND PERFORMANCE



CENEX® PREMIUM GASOLINE ENGINE OILS



POWERFUL GASOLINE ENGINE OILS

Remarkable Engine Protection

Engineered to exceed the latest industry and manufacturers' requirements for new, current and high-mileage gasoline engines.

With 75 years of legacy performance, dealing with demanding driving conditions is an easy task for Cenex® passenger car motor oils. Industry certified with millions of highway miles behind them, Cenex oils continuously deliver. Over-the-road tests prove that Cenex Lubricants provide superior engine protection, cleaner emissions, extended oil drains and remarkable overall performance.

Drivers across the nation trust Cenex products to keep their cars and light-duty trucks safe, maintenance-free and, most importantly, on the road.

The advanced technology in these premium lubricants offers numerous benefits including:

- Maximum wear protection
- Excellent defense against sludge and deposits
- Safeguards for the latest gasoline direct-injected engines
- Reduced friction and maximum high-temperature protection in the most severe driving environments
- Outstanding low-temperature protection to provide optimum startability even in the coldest temperatures



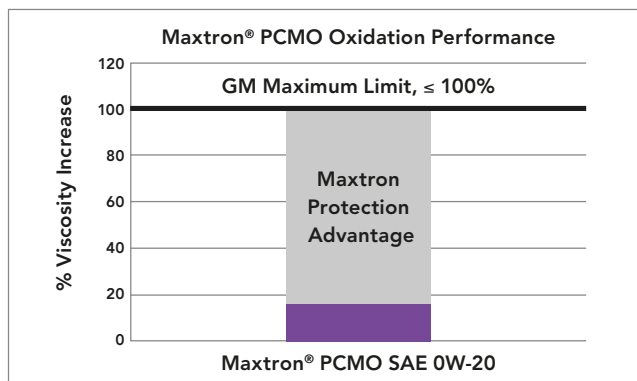
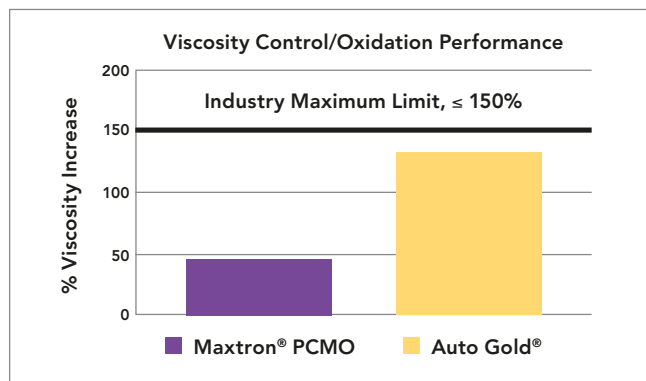
- Optimum viscosity retention ensures fuel efficiency throughout the life of the oil drain and prevents oil breakdown
- Emission system protection throughout the life of the vehicle



Benefits of Cenex[®] Premium Gasoline Engine Oils

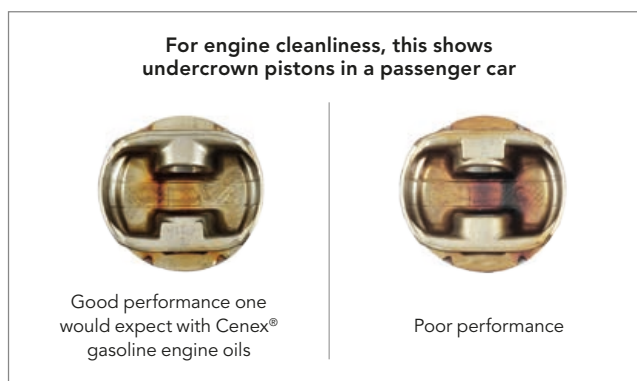
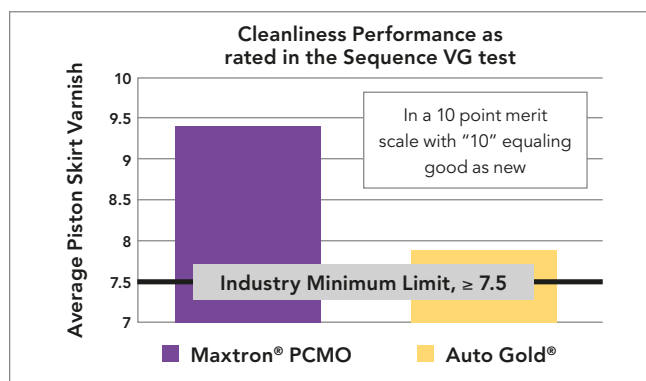
Outstanding Oxidation Resistance

Heat causes conventional oils to break down and oxidize, generating sludge and varnish buildup that reduces engine power and fuel economy. Cenex[®] gasoline engine oils contain premium additive packages that exceed the industry's most grueling oxidation tests by minimizing sludge formation and viscosity increase of the oil.



Superior Engine Cleanliness

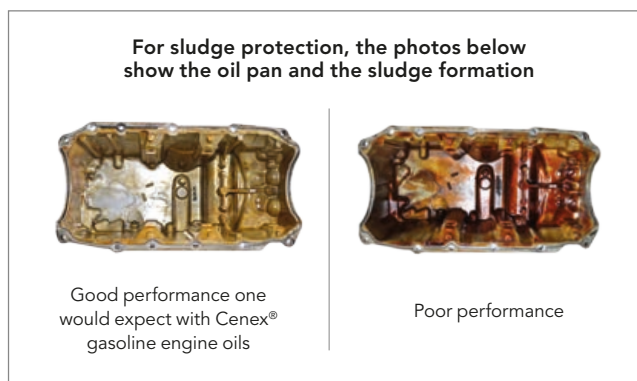
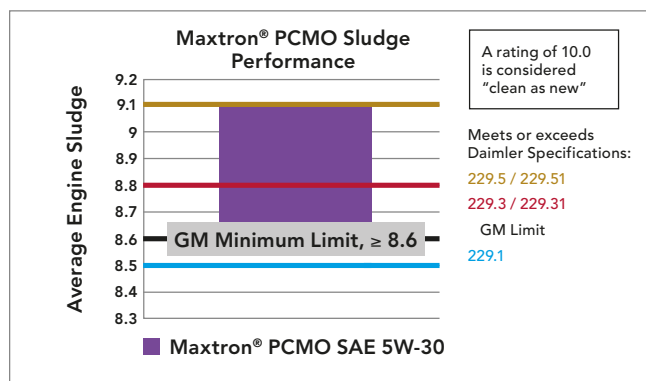
Cenex oils keep pistons clean by preventing carbon buildup and lacquer deposits as demonstrated in the performance defining Sequence VG (ASTM D6593) engine sludge and deposit test.



Passing performance is 7.5 or higher. The higher the rating, the better performance.

Exceptional Sludge Protection

Sludge formation can reduce the life of your engine. When it comes to providing outstanding defense against sludge, Maxtron[®] PCMO is in a class by itself. In an industry test, where a 10.0 rating is recognized as "clean as new", Maxtron achieved a superior rating of 9.1.



Passing performance is 8.6 or higher. The higher the rating, the better performance.

The Exceptional Capabilities of Cenex®

The Ultimate Advantage

The Cenex® portfolio of gasoline oils is formulated to meet or exceed a variety of specifications and engine manufacturers' requirements. Our technologically advanced line of oils provide superior protection for passenger

cars, SUVs, pickups and other gasoline powered equipment. Whether using Maxtron® PCMO full synthetic, Auto Gold® synthetic blend, or Auto Gold® HMO all-mineral formulation, Cenex has the best gasoline engine oils to meet your equipment needs.

Industry Requirements	Viscosity Grade	Cleanliness and Sludge	Emission Compatibility	Oxidation Control	Durability	All weather performance	Viscosity Control
Maxtron® PCMO	0W-20 5W-20 5W-30 10W-30	....	...	....	....	....	...
Auto Gold®	5W-20 5W-30 10W-30 30	..	..	...	...	...	..
Auto Gold® HMO	10W-30 10W-40	..	..	..	..	..	..



Maxtron® PCMO Typical Properties

SAE Viscosity Grade	0W-20	5W-20	5W-30	10W-30
API / ILSAC	SN-RC/GF-5	SN-RC/GF-5	SN-RC/GF-5	SN-RC/GF-5
GM dexos1™ Gen 2 additive technology	dexos1™ Gen 2		dexos1™ Gen 2	
API Gravity, lbs/gal	7.04	7.09	7.09	7.12
Pour Point, °C	-48	-48	-45	-42
Viscosity, cSt @ 40°C	46	49	55	62
Viscosity, cSt @ 100°C	8.2	8.8	9.8	10.6
Viscosity Index	154	160	165	162
CCS Viscosity, cP @ -35	5,780 @ -35	4,430 @ -30	4,425 @ -30	4,270 @ -25
MRV-TP1, cP @ -35	35,500 @ -40	18,080 @ -35	18,100 @ -35	24,380 @ -30
High Temp/High Shear (HTHS @ 150°C, cP)	2.7	2.8	2.9	3.6



Auto Gold® Typical Properties

SAE Viscosity Grade	5W-20	5W-30	10W-30	30
API / ILSAC	SN-RC/GF-5	SN-RC/GF-5	SN-RC/GF-5	SN
API Gravity, lbs/gal	7.16	7.16	7.24	29.5
Pour Point, °C	-45	-43	-39	-30
Viscosity, cSt @ 40°C	48	63	66	97
Viscosity, cSt @ 100°C	8.4	10.4	10.2	11.5
Viscosity Index	152	154	141	103
CCS Viscosity, cP @ -35	6,030 @ -30	6,180 @ -30	5,490 @ -25	-
MRV-TP1, cP @ -35	21,500 @ -35	28,200 @ -35	18,000 @ -30	-
High Temp/High Shear (HTHS @ 150°C, cP)	2.7	3.1	2.9	3.5



Auto Gold® HMO Typical Properties

SAE Viscosity Grade	10W-30	10W-40
API / ILSAC	SN-RC / GF-5	SN
API Gravity, lbs/gal	7.26	7.26
Pour Point, °C	-39	-36
Viscosity, cSt @ 40°C	65	95
Viscosity, cSt @ 100°C	10.0	14.5
Viscosity Index	158	158
CCS Viscosity, cP @ -25°C	5,775	6,300
MRV-TP1, cP @ -30°C	18,900	31,000
High Temp/High Shear (HTHS @ 150°C, cP)	3.0	3.8



Industry Specifications

Cenex® gasoline engine oils are designed to meet or exceed the following API Service Categories: API SN and Resource Conserving ILSAC GF-5.

Typical Applications

Maxtron® PCMO meets or exceeds the newest API and OEM service categories and is recommended for applications calling for: **GM dexos1™ Gen 2**, **Ford WSS M2C929-A** and **WSS M2C930-A**, **GM 6094-M**, **Chrysler MS-6395S**, **Honda** and **Toyota** service fill.

Auto Gold® meets or exceeds the newest API and OEM service categories and is recommended for applications calling for: **Ford WSS M2C929-A** and **WSS M2C930-A**, **GM 6094-M**, **Chrysler 6395-N**, **Honda** and **Toyota** service fill, **SAE J2363/CID A-A 52039**, and car manufacturers' warranty requirements.

Auto Gold® HMO meets all the applications of the Auto Gold brand but with targeted seal conditioner additive specially designed for vehicles with over 75,000 miles.

Always follow the manufacturers' recommendations for viscosity grades and service classifications.



THE CENEX® GASOLINE ENGINE OIL ADVANTAGE



Maxtron® PCMO

A high performance, full-synthetic engine oil that provides maximum protection, keeping passenger cars, trucks and other gasoline-powered equipment running clean and smooth.

Maxtron® PCMO full-synthetic gasoline engine oils are the ultimate choice for high performance engines that run hotter. Formulated with superior quality, high viscosity index synthetic base oils and a shear stable viscosity index improver, Maxtron PCMO provides outstanding high-temperature protection, low-temperature pumpability and extended drain intervals (7,000 to 10,000 miles).

For both the 0W-20 and 5W-30 formulations, the addition of GM dexos1™ Gen 2 additive technology provides an exceptional balance of anti-wear, oxidation, detergents, dispersants, rust, corrosion and foam

inhibitors. The unprecedented formulation contains friction modifiers to maximize fuel economy, as well as correct phosphorus levels to optimize emission system durability and engine wear protection. Additionally, the formulation shields turbocharged engines against the catastrophic phenomenon known as low-speed pre-ignition (LSPI), a serious event caused by premature combustion of the main fuel charge.

Applications:

- Cars and trucks with naturally aspirated or turbocharged gasoline engines
- Gasoline/electric hybrid engines
- Propane fueled engines

Auto Gold®

A synthetic blend gasoline engine oil that exceeds the newest and most stringent industry performance specifications.

Auto Gold® gasoline engine oils are formulated with premium quality, high viscosity base oils and a proven additive system with the proper balance of detergents, dispersants and rust/high-temperature oxidation inhibitors to provide excellent anti-wear protection. The multigrades are formulated with a special viscosity index improver that provides low temperature pumpability to protect engines at cold startups.

The Auto Gold synthetic blend formulation exceeds the industry's most grueling oxidation tests and

has achieved the American Petroleum Institute API SN service classification for oxidation resistance.

Applications:

- Four-stroke naturally aspirated and turbocharged gasoline engines
- Stationary gasoline engines and standby generators
- Off-highway gasoline powered agricultural and construction equipment

Note: Auto Gold® HMO meets all the applications of the Auto Gold® brand but with targeted seal conditioner additive specially designed for vehicles with over 75,000 miles.





The Automotive World is Changing

As automotive manufacturers continue to engineer vehicles to squeeze as much power as possible out of every drop of fuel, Cenex® Lubricants continue to build industry-leading products to protect engines, while offering maximum fuel economy.

Cenex® premium gasoline engine oils are designed to provide remarkable protection in this ever-changing world of demanding fuel economy expectations and low-temperature performance. With the introduction of more complex hardware systems, engines face numerous lubrication challenges:

- Engines must be cleaner over longer drain intervals
- Oils must sustain thermal stability while preventing degradation to enable extended oil drains
- Lubricants must contribute to fuel economy improvement, while still protecting the engine from wear

One way of addressing these challenges is through the continued trend towards lower viscosity, full-synthetic engine oils. These oils must provide the stability, durability and fuel economy today's engines demand. Cenex continues to redefine excellence by building gasoline engine oil products for the future that exceed industry standards and customer expectations.

Visit the Equipment Lookup Tool on Cenex.com to determine the right product for your vehicle

