Maxtron® PCMO

Full Synthetic Gasoline Engine Oil

General Description

Maxtron® PCMO full synthetic gasoline engine oils are designed to far exceed the newest and most stringent industry performance standards including API SN, Resource Conserving and ILSAC GF-5. These oils also meets new car warranty requirements and are backward compatible to the older API, ILSAC and OEM performance requirements.

In addition, all Maxtron PCMO gasoline engine oils not only exceed SN/GF-5, but the 0W-20 and 5W-30 formulations also surpass the more stringent General Motors dexos1™ Gen 2 specification. This specification requires additional performance improvements in sludge reduction, piston cleanliness, volatility, deposit control and protection against a detrimental phenomenon known as low-speed pre-ignition (LSPI). LSPI is most common in turbocharged direct-injection engines operating in low-speed and high-load driving conditions. LSPI can affect many different makes and models, however, the benefits of the technology in Maxtron PCMO can protect all gasoline engines from LSPI damage.

Maxtron PCMO is also formulated with high quality, high viscosity index full synthetic base oils and a shear stable viscosity index improver for outstanding high temperature protection and low temperature pumpability.

The state of the art additive technology has the optimum balance of anti-wear, oxidation, detergents, dispersants, rust, corrosion and foam inhibitors. It contains friction modifiers to maximize fuel economy and the correct phosphorus level to maximize emission system durability and engine wear protection.

Features and Benefits

- **Reserve Performance:** Technology that pushes performance past the API SN/GF-5 requirements for maximum protection.
- **Resource Conserving:** Exceeds SN/ILSAC GF-5 with improved fuel economy, catalysts protection and emission system durability.
- **Oxidation Control:** Provides outstanding control of oxidation, volatility, thermal and viscosity breakdown. This reduces oil consumption, sludge, and varnish for a cleaner engine.
- **Anti-wear Protection:** Contains the maximum level of zinc dialkyl dithio phosphate (ZDDP) to reduce wear, protecting highly loaded engine parts and extending engine life.

Oil Pumpability: A formulation that pumps oil faster than required to various engine parts during cold start-ups reducing long term wear.

- **Flex-Fuel Vehicle Compatible:** Meets lubricant requirements when using ethanol containing gasoline up to E-85.
- **Extended Drain Intervals:** Meets the requirements outlined for the new electronic oil life sensor and the OEM owner manual recommendations.
- **Warranties:** Exceeds ILSAC GF-5 and dexos1™ Gen 2 requirements for new cars under warranty including most American, Asian, and European cars.

Always follow the manufacturer's recommendation for viscosity grade and service classification.

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Industry Performance Standard

- API Service Categories: SN, SM, SL, SJ
- ILSAC GF-5,4,3
- GM dexos1™ Gen 2 licensed 0W-20 and 5W-30 viscosity grades
- API Resource and Energy Conserving
- Meets car manufacturers' warranty requirements for service fill
- Ford WSS M2C930/945-A(5W-20), M2C929/946-A (5W-30), GM 6094M, and Chrysler MS-6395S along with Toyota and Honda

Typical Customer

Owners/operators of gasoline engines in passenger cars, trucks, agricultural, construction, commercial and stationary equipment.

Typical Application

- New and older cars, trucks with naturally aspirated or turbo-charged engines.
- Gasoline/Electric hybrids engines.
- Propane fueled engines.
- Stationary and off-highway engines.

Typical Properties

SAE Grade	0W-20	5W-20	5W-30	10W-30
API Service	SN	SN	SN	SN
ILSAC	GF-5	GF-5	GF-5	GF-5
Resource Conserving/Energy Conserving	Yes	Yes	Yes	Yes
GM dexos1 Gen 2 licensed	Yes	No	Yes	No
API Gravity / lbs. Gal	35.1 / 7.07	34.4 / 7.10	34.3 / 7.11	33.7 / 7.13
Flash Point, °C (°F)	229 (444	230 (446)	235 (455)	234 (453)
Pour Point, °C (ºF)	-45 (-49)	-48 (-54)	-45 (-49)	-42 (-49)
Viscosity @40 °C, cSt	45	47.8	62.2	63.1
Viscosity @100°C, cSt	8.5	8.8	10.9	10.5
Viscosity Index	169	166	168	156
CCS Viscosity, cP @ ºC	5,700@-35	4,900@ -30	5,100@ -30	4,700@ -25
MRV-TP1 @-30°C, cP	—	—	—	19,000
MRV-TP1 @-35°C, cP	—	18,000	26,000	—
MRV-TP1 @-40°C, cP	21,000	—	—	—
High Temp/High Shear (HTHS@150°C, cP)	2.7	2.8	3.3	3.3

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.

Health & Safety

A complete safety data sheet is available by calling 1-651-355-8438 or visit www.cenex.com.