



SYNTHETIC PCMO OILS

(Synthetic Passenger Car Oil, API SM Quality)

SYNTHETIC PCMO OILS are specially formulated motor oils that utilize the latest engine oil technology in synthetic hydrocarbon base stocks to provide outstanding performance.

SYNTHETIC PCMO OILS are blended with low volatility synthetic fluids and the finest additives. These advanced oils have significantly improved thermal and oxidation stability, shear stability and detergency as compared to mineral oil based passenger car engine oils.

SYNTHETIC PCMO OILS offer outstanding high temperature engine protection and performance. Their outstanding heat-transfer capabilities help keep engines operating in their optimal temperature range.

The outstanding thermal and oxidative stability of **SYNTHETIC PCMO OILS** ensure the long-term integrity of the oils after exposure to engine operating temperatures. Poor thermal and oxidative stability are the top reasons conventional oils require frequent changing.

Low volatility makes **SYNTHETIC PCMO OILS** highly resistant to oil consumption. This allows the total volume of oil to protect and lubricate the engine.

Outstanding shear stability ensures that **SYNTHETIC PCMO OILS** maintains its protective viscosity throughout their extended service life and protect engine components from wear, especially at high temperatures.

Wax-free synthetic stocks with extremely low pour points ensure the rapid flow of motor oil throughout the engine after startup, protecting engines when cold-thickened mineral oils allow significant wear. This enhances fuel economy and performance. The low coefficients of friction ensure the maximum delivery of engine power with minimal friction losses.

BENEFITS:

- DESIGNED FOR EXTREME TEMPERATURE OPERATIONS
- EXTENDS DRAIN INTERVALS
- CONSERVES FUEL
- KEEPS ENGINES CLEAN
- EXTENDS OIL DRAIN INTERVALS

APPLICATIONS:

SYNTHETIC PCMO OILS synthetic motor oils are recommended for all gasoline engines. They meet or exceed the following requirements:

- API SM quality
- Meets ILSAC GF-4 Energy Conserving requirements (SAE 5W-20, 5W-30, 10W-30)
- General Motor GM 6094M
- Ford ESE M2C 153-E
- GSA A-A52039 (formerly MIL-L-46152E)

SYNTHETIC PCMO OILS are fully compatible with mineral-based or conventional motor oils. They are also compatible with all other synthetic motor oils.

SYNTHETIC PCMO OILS also meet or exceed the specifications of the following manufacturers:

General Motors → Ford Motor Company → Chrysler → Nissan → Toyota → Volkswagen → Audi → Alfa Romeo → Isuzu → Mazda → Subaru → Jaguar → BMW → Mercedes-Benz → Porsche



SYNTHETIC PCMO OILS MOTOR OILS

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TYPICAL CHARACTERISTICS

SAE Viscosity Grade	5W-20	5W-30	10W-30	15W-50
Product Code	40452	40453	40413	40455
API Gravity (ASTM D-1298)	34.6	34.1	33.7	32.8
Density, lbs/gal	7.09	7.12	7.13	7.17
Viscosity (ASTM D-445):				
cSt @ 40°C	44.4	65	70	130
cSt @ 100°C	7.96	10.5	11.2	17.5
Brookfield Viscosity (D-5293),				
40,000 cPs max @ -35°C	Pass	Pass	-	-
50,000 cPs max @ -30°C	-	-	Pass	-
60,000 cPs max @ -25°C	-	-	-	Pass
Cold Crank Simulator				
6,600 cPs max @ -30°C	Pass	Pass	-	-
7,000 cPs max @ -25°C	-	-	Pass	-
7,000 cPs max @ -20°C	-	-	-	Pass
Viscosity Index (ASTM D-2270)	152	150	152	151
Pour Point (ASTM D-97) °F (°C)	-48 (-54)	-48 (-54)	-48 (-54)	-48 (-54)
Flash Point (ASTM D-92) °F (°C)	417 (214)	446 (230)	435 (224)	439 (226)
Noak Volatility, % weight loss	Pass	Pass	Pass	Pass
Ash content, wt%	0.9	0.9	0.9	0.9
TBN (ASTM D-2896)	7.4	7.4	7.4	7.4

The above data is subject to usual manufacturing variation. For more information and availability, call 1-800-442-LUBE.
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