Daryl Zebrasky

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AMSOIL Regulatory Compliance

DATA SHEET

OE Synthetic Motor Oil

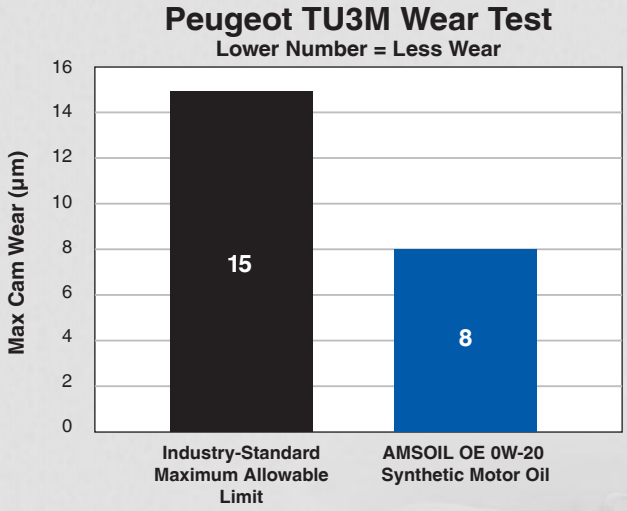
Advanced Engine Protection and Performance

OE Synthetic Motor Oil is for mechanics and drivers seeking peace of mind protection and exceptional value in synthetic motor oil. It delivers 100 percent synthetic engine protection for advanced automotive technology, including turbochargers and direct injection. OE is specifically formulated for the longer drain intervals recommended by original equipment (OE) manufacturers.



Provides Advanced Wear Protection

OE Synthetic Motor Oil provides excellent wear control and protects critical engine parts like pistons and cams. This added protection is particularly important in the extreme environments produced by today's smaller displacement engines that often run lower viscosity oil. Camshaft wear can result in poor valve timing, greatly reducing engine efficiency and leading to expensive repairs. The Peugeot TU3M Wear Test (CEC L-38-A-94), which must be passed to meet the GM* dexos1® Gen 2 specification, determines a motor oil's ability to limit wear. For 100 hours, the four-cylinder test engine is subjected to extreme, wear-inducing conditions. AMSOIL OE Motor Oil provided **47 percent more wear protection**[1] than required by the GM dexos1 Gen 2 specification.



Protects Pistons from Low-Speed Pre-Ignition

OE Synthetic Motor Oil features unique chemistry proven to protect your engine against the harmful effects of low-speed pre-ignition (LSPI). LSPI is the spontaneous ignition of the fuel/air mixture prior to spark-triggered ignition. Most new engines feature gasoline direct injection (GDI), often coupled with a turbocharger. These technologies heighten the possibility of LSPI events, which can destroy pistons and connecting rods. A properly formulated motor oil is critical for protecting your engine against LSPI.

Original equipment manufacturers (OEMs) like GM have addressed the issue by designing tests to determine a motor oil's ability to prevent LSPI. OE Synthetic Motor Oil achieved **100 percent protection against LSPI**[2] in the engine test required by the GM dexos1 Gen 2 specification — zero occurrences were recorded throughout five consecutive tests.

Keeps Engines Clean

OE Synthetic Motor Oil has a 100 percent synthetic, pure chemical structure that is engineered to remove harmful contaminants. Its synthetic base oils naturally resist chemical breakdown to help prevent deposits. Its detergent and dispersant additives give OE excellent sludge and deposit fighting properties. OE Synthetic Motor Oil helps keep your engine clean, reliable and running at peak performance.

Protects in All Temperatures

Synthetic base oils and an advanced additive package make OE Synthetic Motor Oil ideal for today's hotter running engines. It effectively fights heat to control deposits, prevent thickening and limit oil consumption. OE's uniform structure keeps it fluid in low temperatures for easier cold starts and rapid lubrication of components to reduce start-up wear.

Improves Fuel Economy & Maintains Low Emissions

OE Synthetic Motor Oil is licensed by the American Petroleum Institute (API) to meet and exceed the requirements commonly found in owner's manuals. It excels in fuel-economy testing, earning the additional "Resource Conserving" designation from the API. OE is also friendly toward modern emissions-control systems, promoting proper operation of catalytic converters for optimum service life and low exhaust emissions.

[1]Based on independent testing of OE 0W-20 in the Peugeot TU3M Wear Test as required by the dexos1 Gen 2 specification. [2]Based on zero LSPI events in five consecutive tests of AMSOIL OE 5W-30 Motor Oil in the LSPI engine test required by the GM dexos1 Gen 2 specification. *All trademarked names are the property of their respective owners and may be registered marks in some countries. No affiliation or endorsement claim, express or implied, is made by their use.

TYPICAL TECHNICAL PROPERTIES
AMSOIL OE Synthetic Motor Oil

	0W-16 (OES)	**0W-20** (OEZ)	**5W-20** (OEM)	**5W-30** (OEF)	**10W-30** (OET)
Kinematic Viscosity @ 100ºC, cSt (ASTM D445)	7.2	8.6	8.6	11	10.7
Kinematic Viscosity @ 40ºC, cSt (ASTM D445)	36.5	46	48.5	63.4	66.7
Viscosity Index (ASTM D2270)	164	169	158	168	151
CCS Viscosity, cP @ (ºC) (ASTM D5293)	4781 (-35)	5859 (-35)	4310 (-30)	4555 (-30)	4636 (-25)
Flash Point ºC (ºF) (ASTM D92)	218 (424)	216 (421)	226 (439)	220 (428)	230 (446)
Fire Point ºC (ºF) (ASTM D92)	236 (457)	232 (450)	240 (464)	234 (453)	258 (496)
Pour Point ºC (ºF) (ASTM D97)	-48 (-54)	-48 (-54)	-44 (-47)	-44 (-47)	-44 (-47)
NOACK Volatility, % weight loss (g/100g) (ASTM D5800)	12.4	12	8.6	9.4	5.2
High-Temperature/High-Shear Viscosity @ 150ºC, 1.0 X 10^6 $s.^{-1}$, cP (ASTM D5481)	2.38	2.74	2.8	3.3	3.4
Total Base Number (ASTM D2896)	8	8	8	8	8

APPLICATIONS
Use AMSOIL OE Synthetic Motor Oil in applications that require any of the following specifications:

0W-16 (OES)
API SP (Resource Conserving), SN PLUS, SM; ILSAC GF-6B...

0W-20 (OEZ)
API SP (Resource Conserving), SN PLUS, SM...; GM dexos1 Gen 3 (supersedes dexos1 Gen 2 and 6094M); ACEA A1/B1; Chrysler MS-6395; Ford WSS-M2C947-B1, WSS-M2C947-A, WSS-M2C962-A1; ILSAC GF-6A, GF-5, GF-4...

5W-20 (OEM)
API SP (Resource Conserving), SN PLUS, SM...; GM dexos1 Gen 3 (supersedes dexos1 Gen 2 and 6094M); ACEA A1/B1; Chrysler MS-6395; Ford WSS-M2C945-B1, WSS-M2C945-A, WSS-M2C930-A, WSS-M2C960-A1; ILSAC GF-6A, GF-5, GF-4...

5W-30 (OEF)
API SP (Resource Conserving), SN PLUS, SM...; GM dexos1 Gen 3 (supersedes dexos1 Gen 2, LL-A-025, 6094M and 4718M); ACEA A1/B1,A5/B5; Chrysler MS-6395; Ford WSS-M2C946-B1, Honda HTO-06; WSS-M2C946-A, WSS-M2C929-A, WSS-M2C961-A1; ILSAC GF-6A, GF-5, GF-4...

10W-30 (OET)
API SP (Resource Conserving), SN PLUS, SM...; ACEA A1/B1,A5/B5; GM 6094M, 4718M; Chrysler MS-6395; Ford WSS-M2C205-A; ILSAC GF-6A, GF-5, GF-4...

COMPATIBILITY
AMSOIL OE Synthetic Motor Oil is compatible with other synthetic and conventional motor oils. Adding other oils, however, will shorten the life expectancy of AMSOIL motor oils and reduce their performance benefits. AMSOIL does not support extended drain intervals where oils have been mixed.

Aftermarket oil additives are **not recommended** for use with AMSOIL OE Synthetic Motor Oil.

TECHNICAL SERVICES
For immediate answers to your technical questions call (715) 399-TECH (8324) between 8 a.m. and 5 p.m. Central time or email tech@amsoil.com.

SERVICE LIFE
In gasoline-fueled vehicles, AMSOIL OE Synthetic Motor Oil is recommended for the intervals stated by the vehicle manufacturer or indicated by the oil life monitoring system. Change oil filter at every oil change.

WARRANTY SECURE
AMSOIL OE Synthetic Motor Oil is Warranty Secure, keeping your factory warranty intact. OE is a high-performance replacement for vehicle manufacturer-branded products and is also backed by the AMSOIL Limited Warranty. For details, visit AMSOIL.com/warrantysecure.

HEALTH & SAFETY
This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available via the Internet at AMSOIL.com or upon request at 715-392-7101. **Keep Out of Reach of Children.** Recycle used oil and bottle.

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