



SUPREME™ SYNTHETIC BLEND XL MULTIGRADE MOTOR OILS

Introduction

SUPREME™ Synthetic Blend XL Motor Oils are premium products designed to outperform conventional engine oils lubricating the engines of today's gasoline and ethanol (up to E85) fuelled passenger cars, vans, CUVs, SUVs and light duty trucks. These oils are specifically formulated to meet the high-performance requirements of General Motors' dexos1® engine oil specification. With today's high-powered engines, **SUPREME Synthetic Blend XL Motor Oils** can help provide long engine life by lubricating critical parts effectively. They also provide enhanced protection for the latest emission control systems and turbochargers.

SUPREME Synthetic Blend XL Motor Oils are formulated from one of the purest base oils in the world; the result of our HT purity process to produce 99.9% pure base oils. In combination with leading-edge additive technology, they deliver exceptional resistance to thermal breakdown, outstanding low temperature fluidity, and excellent engine protection against wear and deposit formation under the most severe driving conditions.

SUPREME Synthetic Blend XL Motor Oils are specially formulated to exceed the latest API Engine Service Classification for gasoline engines, **API SN/RC**, the latest **ILSAC GF-5** specification and are **GM dexos1®** approved.

Features and Benefits

- **Extended Engine Life**
 - Outstanding protection against wear, rust and corrosion
 - Improved piston cleanliness
 - Superior aeration control for improved oil and engine performance
 - Considerably less wear on rings, liners and camshafts
 - Bearing life greatly extended

- **Exceptional Resistance to High Temperature Thermal Breakdown**

- Cleaner running engines
- Reduces deposits of varnish, sludge and carbon on engine parts
- Protects turbochargers from deposit formation
- Minimizes piston-ring sticking
- Improves lubrication because oil-ways stay clean

- **Outstanding Low Temperature Fluidity**

- Robust low temperature performance against industry standards that permits easier unaided cold weather starts
- Reduces wear during low temperature start-up and operation

- **Reduced Oil Consumption**

- Low evaporation loss results in less oil top-up
- Enhanced seal compatibility to prevent leaks

- **Compatible with High Ethanol Fuels (up to E85)**

- Protects against engine corrosion
- Prevents water separation

- **Protection of Exhaust Emission Control Systems**

- Formulated to meet reduced phosphorus and sulphur levels, and to provide reduced phosphorus volatility in order to protect and extend the life of emission control systems

Improved Fuel Economy Performance

SUPREME Synthetic Blend XL Motor Oils meet or exceed the **ILSAC GF-5** requirements for fuel economy improvement and fuel economy retention versus previous generation ILSAC GF-4 motor oils. They not only provide better initial fuel economy, but they are better at maintaining it over the oil drain interval.

What is the HT difference?

Petro-Canada starts with the HT purity process to produce water-white, 99.9% pure base oils. The result is a range of lubricants, specialty fluids and greases that deliver maximum performance for our customers.



Applications

SUPREME Synthetic Blend XL Motor Oils are recommended for year-round use in gasoline, high ethanol (up to E85), propane and compressed natural gas (CNG) fuelled engines. **SUPREME Synthetic Blend XL Motor Oils** meet or exceed new car warranty requirements for North American and Asian vehicles where **ILSAC GF-5** or **API SN/RC** engine oils are recommended. They are fully back-serviceable to all previous ILSAC and API performance ratings including ILSAC GF-4 and API SM. **SUPREME Synthetic Blend XL Motor Oils** are also **GM dexos1®** approved.

Petro-Canada SUPREME™ Synthetic Blend XL Motor Oils Recommended Applications

■ Approved or Licensed □ Meets

SAE Viscosity Grade	5W-20	5W-30
API		
SN	■	■
Resource Conserving	■	■
SM*	□	□
ILSAC		
GF-5	■	■
GF-4*	□	□
Chrysler		
MS-6395	□	□
Ford		
WSS-M2C945-A	□	
WSS-M2C946-A		□
General Motors		
GM dexos1®	■ GB1E0528024	■ GB1E0527024
Asian OEMs		
Honda, Hyundai, Kia, Mazda	□	□

* back-serviceable

dexos1® supercedes GM6094M and GM4718M

The dexos® specification and trademark are exclusive to General Motors, LLC.

Always consult your owner's manual to select the appropriate viscosity grade for your engine.

Typical Performance Data

PROPERTY	TEST METHOD	SUPREME SYNTHETIC BLEND XL	
		SAE 5W-20	SAE 5W-30
Density, kg/L @ 15°C	D4052	0.852	0.852
Colour	D1500	3.0	3.0
Flash Point, COC, °C / °F	D92	239 / 462	235 / 455
Pour Point, °C / °F	D5950	-48 / -54	-48 / -54
Kinematic Viscosity cSt @ 40°C cSt @ 100°C	D445	48.6 8.5	65.6 11.0
Viscosity Index	D2270	152	161
Cold Cranking Viscosity, cP @ °C / °F	D5293	5140 -30 / -22	5670 -30 / -22
Borderline Pumping Viscosity, cP @ °C / °F	D4684	13270 -35 / -31	19500 -35 / -31
Volatility (Noack), % loss	D5800	10.1	10.9
Sulphated Ash, % wt.	D874	0.99	0.96
Sulphur, mass %	D4294	0.260	0.259
Phosphorus, mass %	D4951	0.077	0.077
Base Number, (BN), mg KOH/g	D2896	9.0	8.9
High-Temperature High-Shear (HTHS) Viscosity, cP @ 150°C		2.7	3.3

The values quoted above are typical of normal production. They do not constitute a specification.
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Health and Safety

SUPREME Synthetic Blend XL Motor Oils have no adverse affect on health provided they are used as directed. To obtain Safety Data Sheets (SDS), contact one of our TechData Info Lines.

TechData Info Lines

If you are an **existing customer** looking to place an order, please call a Customer Order Management Representative at:

Canada (English) Phone 1-800-268-5850
(French)..... Phone 1-800-576-1686
United States Phone 1-877-730-2369
Latin America/Europe/Asia Phone +1-866-957-4444

You can also e-mail us at lubecsr@suncor.com



If you would like to **become a Petro-Canada lubricants customer** and require more information about specialty fluids, oils and greases that can help maximize your equipment performance, savings and productivity, please contact us at:

North America Phone 1-866-335-3369
Europe Phone +44 (0) 121-781-7264
Germany Phone 0800-589-4751
China Phone +86 (21) 6362-0066

Visit us on the web at lubricants.petro-canada.com