



## SUPREME™ SYNTHETIC MULTIGRADE MOTOR OILS

### Introduction

**Petro-Canada SUPREME™ SYNTHETIC Motor Oils**, our best and most advanced motor oils, are designed to provide exceptional lubrication for the engines of today's gasoline and ethanol (up to E85) fuelled passenger cars, vans, CUVs, SUVs and light duty trucks. With today's high-powered engines, **SUPREME SYNTHETIC Motor Oils** can provide long engine life through enhanced lubrication and protection of critical engine parts. They also provide enhanced protection for the latest emission control systems and turbochargers.

**SUPREME SYNTHETIC Motor Oils** start with a pure advantage. They are formulated using Petro-Canada base oils, which are among the purest base oils in the world. We use the **HT Purity Process** to remove performance-hindering impurities. Our base oils are **99.9% pure**. That purity can help maximize the performance of our motor 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 Motor Oils** are specially formulated to exceed the latest API Service Classification for gasoline service, **API SN** with **Resource Conserving**, as well as the latest **ILSAC GF-5** specification. **SUPREME SYNTHETIC 0W-20** and **5W-30** are also designed to exceed GM's **dexos1®** global gasoline engine oil specification.

### Features and Benefits

- **Extended Engine Life**
  - Outstanding protection against wear, rust and corrosion
  - Considerably less wear on rings, liners and camshafts
  - Bearing life greatly extended
  - Minimizes corrosion due to stop-start driving in cold weather
  - Improves engine performance through enhanced aeration control

- **Our Best 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
- **Our Best Low Temperature Fluidity**
  - 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 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 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 Motor Oils** meet or exceed new car warranty requirements for North American and Asian vehicles where **ILSAC GF-5** or **API SN** 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 Motor Oils** are fully compatible with all other synthetic and conventional motor oils.

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

## Petro-Canada SUPREME™ Synthetic Motor Oils Recommended Applications

■ Approved or Licensed    □ Meets

SAE Viscosity Grade	0W-20	0W-30	5W-20	5W-30	10W-30
<b>API</b>					
SN	■	■	■	■	■
Resource Conserving	■	■	■	■	■
SM*	□	□	□	□	□
<b>ILSAC</b>					
GF-5	■	■	■	■	■
GF-4*	□	□	□	□	□
<b>Chrysler</b>					
MS-6395	□	□	□	□	□
<b>Ford</b>					
WSS-M2C945-A			□		
WSS-M2C946-A				□	
WSS-M2C947-A	□				
WSS-M2C953-A1		□			
<b>General Motors</b>					
GM dexos1®	■ GB1E0529024			■ GB1A1201024	
<b>Asian OEMs</b>					
Honda, Hyundai, Kia, Mazda	□	□	□	□	

\* back-serviceable

dexos1® supercedes GM6094M and GM4718M

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

## Typical Performance Data

PROPERTY	TEST METHOD	PETRO-CANADA SUPREME SYNTHETIC				
		SAE 0W-20	SAE 0W-30	SAE 5W-20	SAE 5W-30	SAE 10W-30
Density, kg/L @ 15°C	D4052	0.845	0.844	0.846	0.848	0.852
Colour	D1500	3.0	3.0	3.0	3.0	3.0
Flash Point, COC, °C / °F	D92	231 / 448	227 / 441	233 / 451	230 / 446	237 / 459
Pour Point, °C / °F	D5950	-45 / -49	-45 / -49	-45 / -49	-48 / -54	-45 / -49
Kinematic Viscosity cSt @ 40°C	D445	44.1	58.3	44.9	63.9	64.3
cSt @ 100°C		8.3	10.6	8.3	11.0	10.5
Viscosity Index	D2270	166	175	162	165	153
Cold Cranking Viscosity, cP @ °C / °F	D5293	5800 @ -35 / -31	5650 @ -35 / -31	3570 @ -30 / -22	4850 @ -30 / -22	3730 @ -25 / -13
Borderline Pumping Viscosity, cP @ °C / °F	D4684	16400 @ -40 / -40	22900 @ -40 / -40	9100 @ -35 / -31	15700 @ -35 / -31	10300 @ -30 / -22
Volatility (Noack), % loss	D5800	10.5	11.3	9.0	9.0	7.0
Sulphated Ash, % wt.	D874	0.92	0.92	0.92	0.92	0.92
Sulphur, mass %	D4294	0.260	0.256	0.287	0.276	0.291
Phosphorus, mass %	D4951	0.078	0.072	0.077	0.074	0.078
Base Number, (BN), mg KOH/g	D2896	9.1	7.7	7.9	7.9	7.9
High-Temperature High-Shear (HTHS) Viscosity, cP @ 150°C		2.6	3.1	2.7	3.2	3.2

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

## Health and Safety

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](mailto: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

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