



## 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 5W-30** and **0W-20** are also designed to exceed GM's **dexos1®** global engine oil specification for gasoline service.

### 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
- **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 are better at maintaining it over the oil drain interval.

### 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, European, 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 5W-30** and **0W-20** are also fully approved against the **GM dexos1®** specification (**dexos1®** Global license number **GB1A1201024** and **GB1E0529024**)

**SUPREME SYNTHETIC Motor Oils** also meet the following **OEM specifications**:

- **Ford WSS-M2C945-A:** 5W-20
- **Ford WSS-M2C946-A:** 5W-30
- **Ford WSS-M2C947-A:** 0W-20
- **Chrysler MS-6395:** 0W-20, 0W-30, 5W-20, 5W-30, 10W-30

**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.

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

#### 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.



## Typical Performance Data

PROPERTY	TEST METHOD	PETRO-CANADA SUPREME SYNTHETIC				
		SAE OW-20	SAE OW-30	SAE 5W-20	SAE 5W-30	SAE 10W-30
Density, kg/L @ 15°C / 60°F	D4052	0.844	0.845	0.846	0.848	0.852
Colour	D1500	3.0	3.0	3.0	3.0	3.0
Flash Point, COC, °C / °F	D92	229 (444)	223 (433)	233 (451)	230 (446)	237 (459)
Pour Point, °C / °F	D5950	-48 (-54)	-48 (-54)	-48 (-54)	-48 (-54)	-45 (-49)
Kinematic Viscosity cSt @ 40°C cSt @ 100°C	D445	44.1 8.3	58.3 10.6	45.1 8.3	63.9 11.0	64.3 10.5
Cold Cranking Viscosity, cP @ °C (°F)	D5293	5830 @ -35 (-31)	5648 @ -35 (-31)	3570 @ -30 (-22)	4850 @ -30 (-22)	3730 @ -25 (-13)
Viscosity Index	D2270	166	175	162	165	153
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	11	9	9	7
Sulphated Ash, % wt.	D874	0.95	0.92	0.92	0.92	0.92
Sulphur, mass %	D4294	0.28	0.28	0.28	0.28	0.28
Phosphorus, mass %	D4951	0.074	0.074	0.074	0.074	0.074
Total Base No. (TBN), mg KOH/g	D2896	7.9	7.9	7.9	7.9	7.9
• API Performance Level • ILSAC Classification • API Resource Conserving (RC) • GM dexos1®		SN GF-5 Yes Yes (GB1E0529024)	SN GF-5 Yes —	SN GF-5 Yes —	SN GF-5 Yes Yes (GB1A1201024)	SN GF-5 Yes —

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

## Health and Safety

To obtain Material Safety Data Sheet (MSDS), contact one of Petro-Canada's TechData Info Lines.



## TechData Info Lines

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** . . . . . Phone +1-416-730-2369  
**Europe** . . . . . Phone +1-416-730-2389  
**Asia** . . . . . Phone +1-416-730-2372  
**China** . . . . . Phone +86 (21) 6362-0066

To learn more about how Petro-Canada lubricants, specialty fluids, oils and greases 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 +49 (0) 201-726-2913  
**Latin America** . . . . . Phone +1-416-730-2369  
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