SUPREME SYNTHETIC MULTIGRADE MOTOR OILS

Introduction
Petro-Canada SUPREME SYNTHETIC Motor Oils, our best 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 100% synthetic PURITY™ VHVI base oils derived from the patented HT purity process which produces 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 Motor Oils are specially formulated to exceed the latest API Service Classification for gasoline service, API SN with Resource Conserving, as well the latest ILSAC GF-5 specification. SUPREME SYNTHETIC 5W-30 is also designed to exceed GM’s dexos1™ global engine oil specification for gasoline service and Honda’s HTO-06 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 start-stop 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 is also fully approved against the GM dexos1™ specification (GM dexos1™ Global license number GB1A1201024), and meets or exceeds Honda HTO-06.

SUPREME SYNTHETIC Motor Oils also meet the following OEM specifications:
• Ford WSS-M2C945-A: 5W-20
• Ford WSS-M2C946-A: 5W-30
• Chrysler MS-6395: 0W-20, 0W-30, 5W-20, 5W-30, 10W-30
• GM 6094M: 0W-20, 0W-30, 5W-20, 5W-30, 10W-30
• GM 4718M: 5W-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.

dexos1™ is a Registered Trademark of GM LLC.
## Typical Performance Data

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>PETRO-CANADA SUPREME SYNTHETIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density, kg/L @ 15°C / 60°F</td>
<td>D4052</td>
<td>0.844</td>
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<tr>
<td>Colour</td>
<td>D1500</td>
<td>3.0</td>
</tr>
<tr>
<td>Flash Point, °C / °F</td>
<td>D92</td>
<td>229 (444)</td>
</tr>
<tr>
<td>Pour Point, °C / °F</td>
<td>D5950</td>
<td>-48 (54)</td>
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<tr>
<td>Kinematic Viscosity</td>
<td></td>
<td></td>
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<tr>
<td>cSt @ 40°C</td>
<td>D445</td>
<td>45.2</td>
</tr>
<tr>
<td>cSt @ 100°C</td>
<td></td>
<td>8.5</td>
</tr>
<tr>
<td>SUS @ 100°F</td>
<td></td>
<td>229</td>
</tr>
<tr>
<td>SUS @ 210°F</td>
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<td>54.4</td>
</tr>
<tr>
<td>Cold Cranking Viscosity, cP @ °C (°F)</td>
<td>D5293</td>
<td>5250 @ -35(-31)</td>
</tr>
<tr>
<td>Viscosity Index</td>
<td>D2270</td>
<td>168</td>
</tr>
<tr>
<td>Borderline Pumping Viscosity, cP @ °C (°F)</td>
<td>D4684</td>
<td>15100 @ -40(-40)</td>
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<tr>
<td>Volatility (Noack), % loss</td>
<td>D5800</td>
<td>10</td>
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<tr>
<td>Sulphated Ash, % wt.</td>
<td>D874</td>
<td>0.95</td>
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<tr>
<td>Sulphur, mass %</td>
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<tr>
<td>Phosphorus, mass %</td>
<td>D4951</td>
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<tr>
<td>Total Base No. (TBN), mg KOH/g</td>
<td>D2896</td>
<td>7.9</td>
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<tr>
<td>API Performance Level</td>
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<td>SN</td>
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<td>ILSAC Classification</td>
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<tr>
<td>API Resource Conserving (RC)</td>
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<tr>
<td>GM dexos1™</td>
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<tr>
<td>Honda HTO-06</td>
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<tr>
<td>Product Identification Code</td>
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<td>MOSYN02, MOSYN03, MOSYN52, MOSYN53, MOSYN13</td>
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</table>

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

If you would like to know more about Petro-Canada’s SUPREME SYNTHETIC Motor Oils, or any other product in our complete line of quality lubricants, please contact us at:

**Petro-Canada Europe Lubricants**
The Manor, Haseley Business Centre
Warwick, Warwickshire
CV35 7LS United Kingdom
Phone ......................... +44 (0) 2476-247294
Fax .................. +44 (0) 2476-247295
UK Website .................. www.petro-canada.co.uk
German Website ............ www.petro-canada.de

**Petro-Canada America Lubricants**
980 North Michigan Avenue
Suite 1400, #1431
Chicago, Illinois
USA 60611
Phone ......................... 1-888-284-4572
Fax. .......................... 1-708-246-8994
E-mail ......................... email@petro-canadaamerica.com

**Petro-Canada Asia Pacific Holding Company Ltd.**
Jia Shi Lubricants Trading (Shanghai) Co. Ltd.
1908 World Trade Tower
500 Guangdong Road, Huangpu District
Shanghai, China 200001
Phone ......................... +86-21-6362-0066
Fax .......................... +86-21-6362-0536
E-mail ......................... asiapacific@suncor.com
Website ..................... www.petrocanada.cn