



## SUPREME MULTIGRADE MOTOR OILS

### Introduction

Petro-Canada **SUPREME Motor Oils** are premium advanced motor oils designed to lubricate today's gasoline-fueled passenger cars, vans, SUVs and light duty truck engines. With today's high-powered engines, **SUPREME Motor Oils** can provide extended engine life by lubricating critical parts effectively.

**SUPREME Motor Oils** start with the patented HT purity process which produces 99.9% pure PURITY™ 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 Motor Oils** are specially formulated to exceed the latest API Service Classification, SM, for gasoline service. SAE grades 5W-20, 5W-30, and 10W-30 meet the latest ILSAC GF-4 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
- **Protection of Exhaust Emission Control Systems**
  - Formulated to meet reduced phosphorus and sulphur levels required to protect and extend the life of exhaust emission control systems
- **Exceptional Resistance to High Temperature Thermal Breakdown**
  - Cleaner running engines
  - Reduces deposits of varnish, sludge and carbon on engine parts
  - Minimizes piston-ring sticking
  - Improves lubrication because oil-ways stay clean

- **Outstanding 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

### Applications

**SUPREME Motor Oils** are recommended for year-round use in gasoline, propane and compressed natural gas (CNG) fueled engines. **SUPREME Motor Oils** meets the new car manufacturers' warranty requirements for North American, European, and Asian vehicles where an ILSAC GF-4 or API SM engine oil is recommended. They are back serviceable where ILSAC GF-3 or API SL engine oils are recommended. **SUPREME 5W-20 Motor Oil** is approved against the Ford service fill specification WSS-M2C930-A. **SUPREME 5W-30** and **10W-30 Motor Oils** meet GM 6094M specification.

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

### Improved Fuel Economy Performance over ILSAC GF-3 Standard

Friction reducers in **SUPREME Motor Oils** can save between 1.1 to 2.3%\* in gasoline consumption compared to a motor oil without friction reducers, and so exceed the API's latest Energy Conserving ratings. In addition, they retain from 0.8 to 2.0%\* fuel economy on the used oil.

This represents a 15% improvement\* in the fuel economy requirements compared to the previous ILSAC GF-3 standard.

\* For appropriate viscosity grades

#### What is the HT difference?

Petro-Canada starts with the patented 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                              | ASTM TEST METHOD | PETRO-CANADA SUPREME |             |             |             |             |
|---------------------------------------|------------------|----------------------|-------------|-------------|-------------|-------------|
|                                       |                  | 5W-20                | 5W-30       | 10W-30      | 10W-40      | 20W-50      |
| Density, kg/L @ 15°C (60°F)           | D4052            | 0.853                | 0.855       | 0.866       | 0.867       | 0.879       |
| Colour                                | D1500            | 2.5                  | 2.5         | 2.5         | 2.5         | 2.5         |
| Flash Point, °C (°F)                  | D92              | 231 (448)            | 237 (459)   | 231 (448)   | 235 (455)   | 255 (491)   |
| Pour Point, °C (°F)                   | D5950            | -45 (-49)            | -42 (-44)   | -36 (-33)   | -33 (-27)   | -24 (-11)   |
| Kinematic Viscosity                   | D445             |                      |             |             |             |             |
| cSt @ 40°C                            |                  | 46.8                 | 61.8        | 65.7        | 97.5        | 164.2       |
| cSt @ 100°C                           |                  | 8.3                  | 10.5        | 10.2        | 14.2        | 18          |
| SUS @ 100°F                           |                  | 238                  | 314         | 336         | 500         | 855         |
| SUS @ 210°F                           |                  | 53.8                 | 61.5        | 60.4        | 75.7        | 91.7        |
| Cold Cranking Viscosity - cP @ °C     | D5293            | 3720 @ -30           | 4710 @ -30  | 4720 @ -25  | 5630 @ -25  | 6920 @ -15  |
| Viscosity Index                       | D2270            | 155                  | 160         | 141         | 150         | 121         |
| Borderline Pumping Viscosity, cP @ °C | D4684            | 8130 @ -35           | 10500 @ -35 | 10700 @ -30 | 15100 @ -30 | 18200 @ -20 |
| Sulphated Ash, % wt.                  | D874             | 0.9                  | 0.9         | 0.9         | 0.9         | 1           |
| Sulphur, mass %                       | D4294            | 0.237                | 0.235       | 0.231       | 0.233       | 0.236       |
| Elemental Analysis by WRF, % P        | D4951            | 0.078                | 0.077       | 0.078       | 0.078       | 0.078       |
| Total Base No. (TBN), mg KOH/g        | D2896            | 7.7                  | 7.7         | 7.7         | 7.7         | 7.7         |
| API Performance Level                 |                  | SM                   | SM          | SM          | SM          | SM          |
| ILSAC Classification                  |                  | GF-4                 | GF-4        | GF-4        | GF-4        | GF-4        |
| Energy Conservation (EC)              |                  | Yes                  | Yes         | Yes         | No          | No          |
| Product Identification Code           |                  | MOSP52               | MOSP53      | MOSP13      | MOSP14      | MOSP25      |

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

## Health and Safety

**Petro-Canada SUPREME Motor Oils** have no adverse affect on health provided they are used as directed. To obtain Material Safety Data Sheets (MSDS), contact one of our TechData Info Lines.

## TechData Info Lines

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

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