



## 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
  - Minimizes piston deposits in light-duty diesel engines
  - 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, diesel, 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. They are also suitable for use in light duty diesel applications where API CF is recommended (except 5W-20 grade).

**SUPREME 5W-20 Motor Oil** is approved against the Ford service fill specification WSS-M2C930-A. **SUPREME 5W-30** and **10W-30 Motor Oils** meets 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	15W-40	20W-50
Density, kg/L @ 15°C (60°F)	D4052	0.852	0.857	0.866	0.868	0.876	0.878
Colour	D1500	2.5	<3.0	<3.0	<3.0	<3.0	<3.0
Flash Point, °C (°F)	D92	229 (444)	229 (444)	231 (448)	223 (433)	255 (237)	249 (480)
Pour Point, °C (°F)	D97	-36 (-33)	-36 (-33)	-36 (-33)	-30 (-22)	-27 (-16)	-24 (-11)
Kinematic Viscosity	D445						
cSt @ 40°C		47.8	62.3	67.4	97.2	110	169.5
cSt @ 100°C		8.6	10.6	10.5	14.1	14.6	19.0
SUS @ 100°F		243	317	345	498	567	881
SUS @ 210°F		54.7	61.7	61.5	75.3	77.4	95.5
Cold Cranking Viscosity - cP @ °C (°F)	D5293	3690 @ -30 (-22)	4600 @ -30 (-22)	5060 @ -25 (-13)	5320 @ -25 (-13)	5090 @ -20 (-4)	6140 @ -15 (+5)
Viscosity Index	D2270	159	160	143	148	136	127
Borderline Pumping Viscosity, cP @ °C (°F)	D4684	8200 @ -35 (-31)	15200 @ -35 (-31)	11200 @ -30 (-22)	17700 @ -30 (-22)	14135 @ -25 (-13)	15400 @ -20 (-4)
Sulphated Ash, % wt.	D874	0.6	0.9	0.9	0.9	0.9	0.9
Sulphur, mass %	D438	0.241	0.278	0.266	0.281	0.270	0.269
Elemental Analysis by XRF, % P	D4951	0.077	0.077	0.077	0.077	0.077	0.077
Total Base No. (TBN), mg KOH/g	D2896	7	7	7	7	7	7
API Performance Level		SM	SM	SM	SM	SM	SM
ILSAC Classification		GF-4	GF-4	GF-4			
Energy Conservation (EC)		Yes	Yes	Yes	No	No	No
Product Identification Code		MOSP52	MOSP53	MOSP13	MOSP14	EMOSP15	MOSP25

The values quoted above are typical of normal production. They do not constitute a specification.  
 \* SUPREME 15W-40 is not available in Canada and the USA.

## 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:

**Petro-Canada  
Lubricants Centre  
385 Southdown Road  
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**- East (English)** . . . . . Phone 1-800-268-5850  
**(French)** . . . . . Phone 1-800-576-1686

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