



SUPREME MULTIGRADE MOTOR OILS

Introduction

Petro-Canada SUPREME Motor Oils are premium advanced motor oils designed to lubricate 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 Motor Oils** can help provide long engine life by lubricating critical parts effectively. They also provide enhanced protection for the latest emission control systems and turbochargers.

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 for gasoline service, **API SN**. SAE grades 5W-20, 5W-30, and 10W-30 also meet the latest **ILSAC GF-5** 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
- **Exceptional 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

- **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
 - 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 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 Motor Oils are recommended for year-round use in gasoline, high ethanol (up to E85), propane and compressed natural gas (CNG) fuelled engines. **SUPREME 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 Motor Oils also meet the following **OEM specifications:**

Ford WSS-M2C945-A: 5W-20

Ford WSS-M2C946-A: 5W-30

Chrysler MS-6395: 5W-20, 5W-30, 10W-30

GM 6094M: 5W-20, 5W-30, 10W-30

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

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	0.856	0.855	0.866	0.863	0.876
Colour	D1500	3.0	3.0	3.0	3.0	3.0
Flash Point, °C (°F)	D92	219 (426)	231 (448)	237 (459)	247 (477)	267 (513)
Pour Point, °C (°F)	D5950	-45 (-49)	-45 (-49)	-42 (-45)	-39 (-38)	-18 (0)
Kinematic Viscosity	D445					
cSt @ 40° C		47.3	62.3	67.7	105	159
cSt @ 100° C		8.4	10.7	10.4	15.4	17.9
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 (°F)	D5293	4600 @ -30 (-22)	5500 @ -30 (-22)	5190 @ -25 (-13)	5510 @ -25 (-13)	7590 @ -15 (+5)
Viscosity Index	D2270	153	163	141	154	124
Borderline Pumping Viscosity, cP @ °C (°F)	D4684	13210 @ -35 (-31)	15200 @ -35 (-31)	16140 @ -30 (-22)	24360 @ -30 (-22)	22500 @ -20 (-4)
Sulphated Ash, % wt.	D874	0.9	0.9	0.9	0.9	0.9
Sulphur, mass %	D4294	0.272	0.277	0.271	0.279	0.281
Elemental Analysis, % P	D4951	0.075	0.074	0.074	0.073	0.072
Total Base No. (TBN), mg KOH/g	D2896	7.7	7.7	7.7	7.7	7.7
API Performance Level		SN	SN	SN	SN	SN
ILSAC Classification		GF-5	GF-5	GF-5	-	-
Resource Conserving (RC)		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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Beyond today's standards.

