

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 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 Plus. SAE grades 5W-20, 5W-30, and 10W-30 also meet the latest ILSAC GF-5 specification. Our oils feature new and advanced formulations to protect gasoline direct injected engines and turbocharged direct injected engines from harmful damage due to engine "knocking". In addition, SUPREME 5W-20 and SUPREME 5W-30 contain a blend of our higher quality Group III synthetic base oils, offering improved low temperature performance and reduced engine volatility due to this synthetic blend engine oil.

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
 - Protects against low speed pre-ignition (LSPI)
- **Exceptional Resistance to High Temperature Thermal Breakdown**
 - Cleaner running engines
 - Reduces formation of varnish, sludge and carbon deposits on engine parts

- Protects turbochargers from deposit formation
- Minimizes piston-ring sticking
- Maintains effective lubrication due to oil passages staying 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

What is the HT difference?

Petro-Canada Lubricants 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.



Improved Fuel Economy Performance

SUPREME Motor Oils meet or exceed the ILSAC GF-5 requirements for fuel economy improvement and fuel economy retention versus the previous generation of ILSAC GF-4 motor oils. They not only provide better initial fuel economy, but they 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 and Asian vehicles where ILSAC GF-5 or API SN Plus engine oils are recommended. They are fully back-serviceable to all previous ILSAC and API performance ratings including ILSAC GF-4 and API SN, SM.

Petro-Canada SUPREME™ Motor Oils

Recommended Applications

■ Approved or Licensed □ Meets

SAE Viscosity Grade	5W-20	5W-30	10W-30	10W-40	20W-50
API					
SN Plus	■	■	■	■	■
SN Resource Conserving	■	■	■		
SN, SM*	□	□	□	□	□
ILSAC					
GF-5	■	■	■		
GF-4*	□	□	□		
Chrysler					
MS-6395	□	□	□		
Ford					
WSS-M2C945-A/B1	□				
WSS-M2C946-A/B1		□			
General Motors					
GM 6094M (obsolete)	□	□	□		
Asian OEMs					
Honda, Hyundai, Kia, Mazda, Toyota	□	□			

* back-serviceable

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

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/59°F	D4052	0.849	0.850	0.864	0.860	0.877
Colour	D1500	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Flash Point, COC, °C/°F	D92	221 / 430	233 / 451	231 / 448	223 / 433	233 / 451
Pour Point, °C/°F	D5950	-45 / -49	-45 / -49	-45 / -49	-42 / -44	-33 / -27
Kinematic Viscosity cSt @ 40°C	D445	46.7	62.2	64.4	107	175
cSt @ 100°C		8.4	10.7	10.1	15.8	18.8
Viscosity Index	D2270	158	162	142	157	121
Cold Cranking Viscosity - cP @ °C/°F	D5293	3850 @ -30 / -22	4570 @ -30 / -22	4680 @ -25 / -13	4740 @ -25 / -13	8650 @ -15 / +5
Borderline Pumping Viscosity, cP @ °C/°F	D4684	11410 @ -35 / -31	16780 @ -35 / -31	14590 @ -30 / -22	22710 @ -30 / -22	25640 @ -20 / -4
Sulphated Ash, % wt	D874	0.95	0.79	0.92	0.82	0.91
Sulphur, % wt	D4294	0.269	0.251	0.270	0.266	0.266
Phosphorous, % wt	D4951	0.077	0.072	0.074	0.075	0.076
Base Number (BN), mg KOH/g	D2896	6.5	6.3	7.0	6.3	6.9
High-Temperature High-Shear (HTHS) Viscosity, cP @ 150°C	D4683	2.6	3.0	3.0	4.0	4.8

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

To order product or to learn more about how Petro-Canada Lubricants
can help your business visit: **lubricants.petro-canada.com**
or contact us at: **lubecsr@petrocanadalsp.com**



IM-7872E (2018.06)

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