



SUPREME LP/NG ENGINE OIL

Urban Buses, delivery trucks and service fleets are more commonly being fueled by CNG (Compressed Natural Gas), LNG (Liquefied Natural Gas) or LPG (Liquefied Petroleum Gas). Royal Oil Co.'s SUPREME LP/NG is an outstanding engine oil, formulated to address the disadvantages of using these gases in today's engines. The first step in preparation for the special additive chemistry is to put the base oils through a special refining process, to remove components that would contribute to sludge, gum, varnish or other deposits.

SUPREME LP/NG contains a proprietary additive (HSS) to protect engines from hydrogen sulfide normally found in lower quality LP and Natural Gas. Hydrogen sulfide can damage engine parts by corrosion, especially yellow metals such as brass, bronze, etc. By using the Royal oils with HSS, it will ensure engines are protected with all types of LP and Natural Gas.

Testing of SUPREME LP/NG has shown this product significantly reduces piston deposits, even with extended drain intervals. Excellent engine cleanliness was observed, with a good Base Number (BN) retention and low wear metals. Very little viscosity increase occurred, indicating excellent performance during extended drain intervals. Both SUPREME LP/NG offers impressive performance in a wide variety of engines.



KEY BENEFITS

FOR CNG, LNG, & LPG

ENRICHED CHEMISTRY

EXTENDED DRAIN INTERVAL

IMPRESSIVE PERFORMANCE

PROPRIETARY ADDITIVE

SUPERIOR FORMULA



KEY INDUSTRIES

MUNICIPAL

TRANSPORTATION

SCHOOL SYSTEMS

AGRICULTURE

INDUSTRIAL

CONSTRUCTION

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SPECIFICATIONS

SUPREME LP/NG SAE 15W/40, meets or exceeds the following specifications: Cummins 20074, B5.9G, C8.3G, ISL G, ISX12 G, ISX15 G; DETROIT DIESEL 93K216, SERIES 50G, SERIES 60G; VOLVO CNG; MACK CNG; ISUZU CNG; HINO CNG; HYUNDAI CNG; RENAULT RGD; NAVISTAR LNG MAXXFORCE DT (7.6L) and MAXXFORCE 13L; DAIMLER-BENZ MB226.9; API CF-4; MIL-L-2104F.

ASTM TEST METHOD	TYPICAL PROPERTIES	SAE 15w/40 RESULTS
D-287	Specific Gravity	0.88
D-446	Viscosity cSt Typical @ 100°C.	15.0 cSt
D-446	Viscosity cSt Typical @ 40°C.	05.0 cSt
D-2270	Viscosity Index, Minimum	135
D-97	Pour Point	-30°C/-22°F
D-847	Sulfated Ash, Wt. % Maximum	0.9%
D-2896	Total Base Number (TBN), mg KOH/g	6.1
	Calcium, Wt. %, typical	.21
	Zinc, Wt. %, typical	0.09
	Weight per gallon	7.31 pounds/gal

Handling Information: For safe handling of the product, read the Material Safety Data Sheet (MSDS).



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