



ROYAL PURPLE 15W-40

15W-40 CJ-4 HIGH PERFORMANCE DIESEL MOTOR OIL

BEYOND SYNTHETIC™

Royal Purple 15W-40 is a high performance synthetic engine oil made especially for vehicles equipped with EPA '07 and EPA '10 compliant engines. These engines are fueled with Ultra Low Sulfur Diesel (ULSD) and require the use of Low Ash engine oils, to protect the installed emissions equipment, including DPFs, catalytic converters, EGR and SCR injection.

Royal Purple 15W-40 motor oil has proven to offer excellent performance to maximize component life, extend drain intervals and improve fuel performance. Made with high performance synthetic base stocks, Royal Purple 15W-40 has excellent high temperature break down resistance and low temperature pumpability to minimize cold induced startup wear. The stable additive package has good soot dispersancy to protect against oil thickening and abrasive wear. It also provides rust and corrosion protection and helps prevent varnish and sludge formulation.

OEM RECOMMENDATIONS

Royal Purple 15W-40 should be considered where the following OEM specifications are recommended:

- API CJ-4 / SN
- ACEA E5 / E7
- CAT ECF-3
- Cummins CES 20081
- DDC Power Guard 93K218
- Mack EO-0 Premium Plus
- Renault VI RLD-3
- Volvo VDS-4

Royal Purple 15W-40 can also be used in older diesel engines, including off highway engines still using the 500 ppm sulfur diesel fuels.

The product is also suitable for mixed fleets with diesel and gasoline fueled vehicles.

PERFORMANCE ADVANTAGES

- **Enhanced Wear Protection**
Royal Purple's advanced additive technologies form a tough, tenacious film on all metal surfaces providing superior engine wear protection.
- **Extended Oil Life and Drain Intervals**
Royal Purple 15W-40 is extremely resistant to oxidation and stands up to the heat that causes oils to thicken, form lacquer and varnish deposits, lose its lubricity and shorten the life of both the oil and the engine.
- **Superior Corrosion Protection**
Royal Purple's advanced additive technology protects during normal and severe operation, and acts as a preservative oil during shut-down.
- **Reduced Exhaust Emissions**
The enhanced piston ring to cylinder wall seal provided by Royal Purple's 15W-40 oil reduces blow-by, improves combustion efficiency and reduces harmful emissions.
- **Improved Engine Cleanliness**
Royal Purple Motor Oil's natural solvency cleans deposits left by old oils and keeps engines clean.
- **API Licensed and Warranty Compliant**
Royal Purple's 15W-40 Motor Oil is API licensed. It is compatible with other mineral and synthetic motor oils. Switching is easy. Drain old oil. Change the filter. Add Royal Purple Motor Oil. Follow the manufacturer's recommended drain intervals during warranty.
- **Seal Compatibility**
Royal Purple Motor Oil has the same excellent seal compatibility as mineral engine oils.
- **Environmentally Responsible**
Royal Purple Motor Oil components are TSCA listed and meets EPA, RCRA and OSHA requirements. Royal Purple Motor Oil extends oil drain intervals, eliminates premature oil changes, decreases the amount of oil purchased and disposed of and conserves energy.



ROYAL PURPLE 15W-40

15W-40 CJ-4 HIGH PERFORMANCE DIESEL MOTOR OIL

TYPICAL PROPERTIES*	ASTM METHOD	SAE GRADE / API SERVICE
		15W-40 CJ-4 / SN
Viscosity	D445	
cSt @ 40°C		108.0
cSt @ 100°C		15.22
Viscosity Index	D2270	148
Low Temp. Pumping Viscosity	D4684	
≤60,000cP @ -25°C		14,900
Low Temp. Cranking Viscosity	D5293	
≤7000cP @ -20°C		4628
Flash Point, °F	D92	454
Pour Point, °F	D6892	-49
High Temp. / High Shear	D4683	
cP @ 150°C		4.18
NOACK Volatility Test	D5800	
Evaporative Loss % @ 250°C		10.7
Density, lbs/g	D4052	7.24
Total Base Number, mgKOH/g	D2896	10.0
Sulfated Ash, % Max.	D874	0.98

*Properties are typical and may vary

Royal Purple 15W-40 motor oil meets or exceeds car manufacturer's oil specifications and will not void warranty. Follow the manufacturer's recommended drain intervals during warranty.

Note: Royal Purple's engine oil solvency cleans wear metals and deposits left by previous oils. These wear metals and deposits can cause abnormally high values on used oil analysis until the engine is clean.