



# DURALEC SUPER™

## CJ-4 HIGH PERFORMANCE DIESEL MOTOR OIL

### BEYOND SYNTHETIC™

Duralec Super API CJ-4 / SN motor oil is a high performance synthetic engine oil made for those diesel engines requiring the use of an emissions compliant oil for the 2007 and 2010 emissions equipment such as: DPF's, Catalytic Converters, EGR, and SCR injection with the ultra low sulfur diesel fuels found in North America and Europe.

Duralec Super API CJ-4 / SN 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, Duralec Super CJ-4 / SN 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, provides rust and corrosion protection and helps prevent varnish and sludge formation.

### OEM RECOMMENDATIONS

Royal Purple Duralec Super API CJ-4 / SN should be considered where the following OEM specifications are recommended:

ACEA E5/ E7  
Caterpillar ECF-3  
Cummins CES 20081  
Detroit Diesel DDC PowerGuard 93K218  
Deutz DQC III-05  
Mack EO-O Premium Plus  
MB 228.3  
Volvo VDS-4

Royal Purple Duralec Super API CJ-4 / SN 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

- **Greater Wear Protection**  
Duralec Super's advanced additive technologies form a tough, tenacious film on all metal surfaces providing superior engine wear protection.
- **Greatly Extends Oil Drain Intervals**  
Duralec Super Motor Oil is extremely oxidation stable 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**  
Duralec Super's advanced additive technologies protects during normal and severe operation and acts as preservative oil during shut-down, which provides protection upon initial startup.
- **Reduces Exhaust Emissions**  
Duralec Super Motor Oil provides a superior seal between the piston ring and cylinder wall, which reduces blow-by, improves combustion efficiency and reduces harmful emissions.
- **Keeps Engines Clean**  
Duralec Super Motor Oil's natural solvency cleans deposits left by old oils and keeps engines clean.
- **API Warranty Compliant**  
Duralec Super's SAE grade motor oils are API licensed. They are compatible with other mineral and synthetic motor oils. Switching is easy. Drain old oil. Change the filter. Add Duralec Super Motor Oil. Follow the manufacturer's recommended drain intervals during warranty.
- **Will Not Harm Seals**  
Duralec Super Motor Oil has the same excellent seal compatibility as mineral engine oils.
- **Environmentally Responsible**  
Duralec Super Motor Oil components are TSCA listed and meets EPA, RCRA and OSHA requirements. Duralec Super Motor Oil extends oil drain intervals, eliminates premature oil changes, decreases the amount of oil purchased and disposed of and conserves energy.



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TYPICAL PROPERTIES*	ASTM METHOD	SAE GRADE		
		5W-40 CJ-4/SN	10W-30 CJ-4/SN	15W-40** CJ-4/SN
Viscosity	D445			
cSt @ 40°C		86.3	70.4	108.0
cSt @ 100°C		14.4	11.9	15.22
Viscosity Index	D2270	174	150	148
Pumping Viscosities	D4684			
cP @ -35°C		21,300		
cP @ -30°C			23,300	
cP @ -25°C				14,900
Cranking Viscosity	D5293			
cP @ -30°C		6,570		
cP @ -25°C			6,310	
cP @ -20°C				4,628
Flash Point, °F	D92	421	327	454
Pour Point, °F	D6892	-49	-49	-49
Total Base Number, mgKOH/g	D2896	10.3	10	10
Sulfated Ash, % Max.	D874	1.0	1.0	.98

\*Properties are typical and may vary

\*\*API energy conserving. 15W40 meets Cummins CES 20081, DDC Powerguard 93K218, Mack E0-0 Premium Plus, Renault VI RLD-3 and Volvo VDS-4 engine oil requirements.

Duralec Super API CJ-4 / SN 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: Engine oil's 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.