



# ROYAL PURPLE<sup>®</sup>

## SYNTHETIC OIL

## Motor Oils

### Beyond Synthetic™

Royal Purple<sup>®</sup> Motor Oil is recommended for use in all four-cycle gasoline engines and both two-cycle and four-cycle diesel applications including automotive, commercial fleet and stationary industrial diesel engines.

Royal Purple<sup>®</sup> Motor Oil is a tough, long life, high performance oil that delivers superior protection and enhanced performance to gasoline and diesel engines. It gains its performance advantages from a blend of synthetic oils plus Royal Purple's proprietary, synthetic Synerlec<sup>®</sup> additive technology.

Synerlec<sup>®</sup> additive technology greatly reduces engine wear, including ring, cylinder and bearing wear. It is extremely tenacious, adheres to engine surfaces and remains after shutdown, which provides protection upon initial startup.



Multi-Grade Oils: 5W20, 5W30, 10W30, 10W40, 15W40, 20W50  
Straight-Grade Oils: SAE 30, SAE 40, SAE 50

### Exclusive Performance Advantages:

- **Greater Wear Protection**  
Synerlec<sup>®</sup> additive technology forms a tough, tenacious film on all metal surfaces virtually eliminating engine wear.
- **Greatly Extends Oil Drain Intervals**  
Royal Purple<sup>®</sup> Motor Oil is extremely oxidation stable and stands up to the heat that causes oils to thicken, to form lacquer and varnish deposits, to lose its lubricity and to shorten the life of both the oil and the engine.
- **Superior Corrosion Protection**  
Synerlec<sup>®</sup> additive technology protects during normal and severe operation and acts as a preservative oil during shutdown.
- **Saves Fuel**  
Royal Purple<sup>®</sup> Motor Oil's low coefficient of friction produces meaningful improvements in fuel economy.
- **Reduces Exhaust Emissions**  
Royal Purple<sup>®</sup> Motor Oil provides a superior seal between the piston ring and cylinder wall, which reduces blow-by, improves combustion efficiency and measurably reduces harmful emissions.
- **Increases Horsepower**  
Royal Purple<sup>®</sup> Motor Oil increases horsepower and torque over other oils.
- **Keeps Engines Clean**  
Royal Purple<sup>®</sup> Motor Oil's natural solvency cleans deposits left by old oils and keeps engines clean.
- **Mates Engine Parts**  
Synerlec<sup>®</sup> additive technology allows engine parts to perfectly mate. Mated parts allow engines to run smoother with increased efficiency for maximum performance.
- **API Warranty Approved**  
Royal Purple's SAE grade motor oils are API licensed and will not void new car warranties. They are compatible with other mineral and synthetic motor oils. Switching is easy. Drain old oil. Change the filter. Add Royal Purple<sup>®</sup> Motor Oil. Follow manufacturer's recommended drain intervals during warranty.
- **Will Not Harm Seals**  
Royal Purple<sup>®</sup> Motor Oil has the same excellent seal compatibility as mineral engine oils.
- **Environmentally Responsible**  
Royal Purple<sup>®</sup> Motor Oil components are TSCA listed and meet EPA, RCRA and OSHA requirements. Royal Purple<sup>®</sup> 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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### Motor Oils

Multi-Grade Oils



#### ROYAL PURPLE<sup>®</sup> MOTOR OIL Part Numbers

Grade	1-Qt. Bottle	Case	5-Gal. Pail	55-Gal. Drum
5W20	RPM5W20-BQ	RPM5W20-12C	RPM5W20-P	RPM5W20-D
5W30	RPM5W30-BQ	RPM5W30-12C	RPM5W30-P	RPM5W30-D
10W30	RPM10W30-BQ	RPM10W30-12C	RPM10W30-P	RPM10W30-D
10W40	RPM10W40-BQ	RPM10W40-12C	RPM10W40-P	RPM10W40-D
15W40	RPM15W40-BQ	RPM15W40-12C	RPM15W40-P	RPM15W40-D
20W50	RPM20W50-BQ	RPM20W50-12C	RPM20W50-P	RPM20W50-D

Case = 12 / 1-quart bottles

#### Typical Properties\*

ASTM TESTS		SAE GRADE / API SERVICE					
		5W20** SL/GF-3	5W30** SL/GF-3	10W30** SL/GF-3	10W40 CF, CF-2/SJ	15W40*** CH-4/SJ	20W50 CF,CF-4/SJ
D-445	Viscosity						
	cSt @ 40°C	49.5	65.3	70.3	94.0	110.1	170.0
	cSt @ 100°C	8.7	11.0	10.7	13.8	14.9	20.2
	SSU @100°F	253	332	360	482	567	880
	SSU @ 210°F	56	64	63	75	79	102
D-2270	Viscosity Index	156	161	141	149	140	138
D-4684	Pumping Viscosities						
	cP @ -35°C	22200	34800	—	—	—	—
	cP @ -30°C	—	—	18200	—	—	—
	cP @ -25°C	—	—	—	—	21100	—
	cP @ -20°C	—	—	—	—	—	18800
D-92	Flash Point °F	455	455	455	400	435	435
D-92	Fire Point °F	480	480	480	435	470	470

\*Properties are typical and may vary.

\*\*API energy conserving.

\*\*\*For use in both gasoline and diesel engines.