

Beyond Synthetic™

Syn V EMD™ is recommended for EMD / GE diesel engines with silver coated bearings.

Syn V EMD™ keeps EMD engines much cleaner than mineral EMD oils while providing superior anti-wear / anti-scuffing / anti-seizing protection. Syn V EMD™ greatly extends oil and filter change intervals and reduces the fuel consumption and high oil consumption common in most EMD diesel engines.

Syn V EMD™ is formulated with Royal Purple's proprietary Synerlec® additive technology, which is proven to make equipment run smoother, cooler, quieter, longer and more efficiently. It leaves a thin, tough, protective film on all metal surfaces, which protects engines by providing instant lubrication upon startup and acting as a preservative oil during shutdown.

Synerlec® additive technology makes the difference!

Synthetic oils enable Royal Purple to make superior lubricants, but it is Royal Purple's advanced Synerlec® additive technology that gives its lubricants their amazing performance advantages. Synerlec® additive technology truly is *beyond synthetic*.™

Synerlec® additive technology forms a tough, slippery, synthetic film on all metal surfaces. This proprietary film significantly improves lubrication: first, by increasing the oil film's thickness, and second, by increasing the oil film's toughness, both of which help to prevent metal-to-metal contact. It displaces moisture from metal surfaces and protects all metals against rust and corrosion. It also fortifies the oil against the detrimental effects of heat, which causes oil to oxidize.

Performance Advantages:

- **Clean, Efficient Engines**
The synthetic solvency of Syn V EMD™ keeps engine ports and parts cleaner than detergents.
- **Longer Oil Life**
The superior oxidation stability of Syn V EMD™ greatly extends drain intervals.
- **Extended Filter Change Intervals**
The synthetic oil stability of Syn V EMD™ minimizes harmful oil degradation.
- **Prolongs Engine Life**
The tough, tenacious, synthetic film of Syn V EMD™ provides superior engine protection during both operation and startup.
- **Energy Efficient**
Syn V EMD™ has a lower coefficient of friction to save fuel.
- **Environmentally Responsible**
Syn V EMD™ meets Code of Federal Regulation 40, Part 261, App. VII.
- **Superior Corrosion Protection**
Syn V EMD™ contains a synthetic corrosion inhibitor to protect engines during operation and to function as a preservative oil during shutdown. Syn V EMD™ is noncorrosive to silver and other metals.
- **EMD / GE Approved**
Syn V EMD™ is formulated with approved EMD / GE additives.

Typical Properties*	SAE Grade	
	40	20W40
Viscosity		
cSt @ 40°C	141.0	153.0
cSt @ 100°C	14.4	15.2
SUS @ 100°F	739	803
SUS @ 210°F	77	81
Viscosity Index	100	100
Flash Point °F	465	465
Pour Point °F	-35	-40
LMOA Generation	V	V
Copper Corrosion Test	Pass	Pass
Rust Test		
Fresh Water	Pass	Pass
Salt Water	Pass	Pass
Foam Tendency	Nil	Nil
Calcium, mass %	0.33	0.33
Zinc, ppm	3	3
Total Base No. (TBN)	13	13

*All properties are typical and may vary.