



## Full Synthetic 15W-40

**STARFIRE Full Synthetic 15W40 HD Engine Oil** is specially engineered for heavy duty diesel and gasoline engines operating under all service conditions. It is formulated using premium synthetic base oils and advanced additive technology to provide the ultimate protection for engine wear, soot control, and extended drain protection.

### APPLICATIONS

- On the highway applications for light and heavy duty trucking
- Off the highway applications such as trucking, construction, agriculture and quarrying
- Various mixed fleet applications

### BENEFITS

- Performs well in low emission diesel engines which increase the demands on engine lubricants.
- Delivers the best performance in late model engines, as well as older engines.
- Excellent soot handling capabilities.
- Exemplary thermal stability and oxidation control.
- Contains properties which provide anti-wear and anti-scuff.
- Contains extended TBN reserves which provide improved acid neutralization and corrosion protection.
- Maximizes oil flow to the critical bearing surfaces during start up.
- Has stay-in-grade sheer stability.
- Extended drain capabilities- excellent water tolerance.

### MEETS PERFORMANCE REQUIREMENTS

- ACEA E9
- API CK-4, CJ-4, CI-4 Plus, CI-4, CH-4, SN
- MACK EO-M Plus, EO-N Premium Plus, EO-O Premium Plus 07
- CUMMINS CES 20078/20081
- VOLVO VDS-4, VDS-3
- Global DHD-1
- Mercedes Benz P228.31, 228.51
- Detroit Diesel DDC93K214, DDC93K215, DDC93K218
- Caterpillar ECF-2, ECF-3
- JASO DH-2
- MTU Type I & II
- Man 3275, 3575
- Allison C-4
- Renault RLD-3
- Ford WSS M2C171-E
- Plus many others

SAE GRADE	15W-40
Viscosity: cSt @ 40°C	111
cSt@100°C	16.3
Viscosity Index	158
Pour Point, °F	-36
Specific Gravity @ 60°F (15.6°C)	0.858
Gravity, °API	33.4
CCS Viscosity, cP	4,250 @ -20 °C
Density (lb/gal) @ 60°F	7.16
Color	L2.5