



Extended Life **SAE 5W-40** *FULL SYNTHETIC* **MOTOR OIL**



MFA Oil High Performance Extended Life Full Synthetic SAE 5W-40 Motor Oil was specifically designed for use in the latest high-output, low-emission engines including those with Exhaust Gas Recirculation (EGR) using Ultra Low Sulfur Diesel fuel as well as older engines using low or higher sulfur fuels, aftermarket treatment systems with Diesel Particulate Filters (DPFs) and Diesel Oxidation Catalyst (DOC) treatments. This product meets API CJ-4, CI-4 Plus and SM, Mack EO-O Premium Plus, Caterpillar ECF-3, ACEA E7-04, Cummins CES 20081, Detroit Diesel 93K218 and Volvo VDS-4. It is for use in all heavy-duty and automotive engines currently in use where an SAE 5W-40 that meets API CJ-4/SM is specified.

- Wear protection significantly exceeds API CJ-4 and the toughest OEM specifications
- High detergency and superior dispersancy keep engines and pistons clean and soot suspended in the oil despite longer drain intervals and increased soot loading
- Higher starting TBN (10.0) provides added oxidation control and protection against acid build-up that can cause rust and corrosion
- Provides excellent TBN retention
- Provides oxidation control and piston cleanliness



Extended Life SAE 5W-40 FULL SYNTHETIC MOTOR OIL



Typical Characteristics

| PRODUCT | 5W-40 |
|--|--------------|
| Gravity, °API | 33.5723 |
| Specific Gravity @ 60°F (15.6°C) | 0.8572 |
| Viscosity @ 40°C cSt | 87.75 |
| Viscosity @ 100°C cSt | 14.76 |
| Viscosity Index | 177 |
| High Temperature / High Shear Vis at 150°C, cP | 3.5 |
| Noack Volatility, % loss | 13 |
| Color | 2.5 |
| Zinc, wt. % | 0.127 |
| Phosphorus, wt. % | 0.115 |
| Calcium, wt. % | 0.082 |
| Sulfur, wt. % | 0.314 |
| Magnesium, wt. % | 0.116 |
| Sulfated Ash, wt. % | 0.99 |
| Nitrogen, wt. % | 0.124 |
| Pumping Viscosity at (°C), cP | 24,113 (-35) |
| TBN, mgKOH/g | 10 |

Performance Level

API CJ-4/SM, CI-4 PLUS, CI-4, CH-4, CG-4, CF-4, CF-2, CF
 MACK EO-0 PREMIUM PLUS '07
 MACK EO-N PREMIUM PLUS '03
 MACK EO-M PLUS
 CATERPILLAR ECF-3, ECF-1
 CUMMINS CES 20081, 20077, 20076
 DETROIT DIESEL 93K218, 93K215, 93K214
 MAN 3275
 MERCEDES BENZ 228.3
 MTU TYPE I, TYPE II
 VOLVO VDS-4, VDS-3, VDS-2
 GLOBAL DHD-1
 JASO DH-2
 ACEA E7-04, E4, E2
 ALLISON C-4
 JOHN DEERE
 FORD TRACTORS
 ALLIS-CHALMERS
 MASSEY FERGUSON
 J.I. CASE & CASE IH
 INTERNATIONAL HARVESTER (DIESEL & GASOLINE)
 KUBOTA
 AGCO TRACTORS

Available In:

Drum, Bulk

