



LOTUS Lubes™ Hyper ULTRA Multi-Grade Engine Oil 10W-30

PRODUCT DESCRIPTION

LOTUS Lubes™ Hyper ULTRA Engine Oil SAE 10W-30 is formulated with premium base stocks and the latest additive technology to exceed the requirements of 2007 low-emission engines equipped with diesel particulate filters (DPF) and the performance standards of most diesel engine manufacturers. It provides outstanding lubricity characteristics with ultra-low sulfur (ULS) diesel and low-sulfur EPA diesel fuels while providing superior wear protection, optimum fuel economy and excellent low-temperature performance for additional cold-start protection.

LOTUS Lubes™ Hyper ULTRA Engine Oil is formulated with CleanGuard™ technology, an advanced additive system that contains active cleaning agents. CleanGuard™ provides superior soot control and a proprietary detergent system that delivers ongoing engine cleanliness, extending the life and optimizing service intervals of diesel particulate filters (DPF) and exhaust gas recirculation (EGR) systems.

FEATURE & BENEFITS

- * Optimum fleet fuel economy and low-temperature fluidity
- * Superior wear protection to protect critical engine components
- * Maintains excellent soot control
- * Optimum DPF service life and operation
- * Outstanding resistance to oil oxidation and sludge formation
- * Protects pistons from carbon deposits
- * Technology proven in more than 2.5 Trillion Miles of heavy-duty engine operation
- * CleanGuard™ technology maintains engine cleanliness and extends the service life of DPF systems
- * Advanced dispersants keep soot in suspension and reduces soot-thickening in extended intervals
- * Outstanding shear stability maintains oil viscosity throughout engine oil service life



TYPICAL PHYSICAL PROPERTIES

SAE Grade	10W-30
API Service	CJ-4/SM
API Gravity @ 60°F	30.8
Flash Point, °C (°F)	232 (449)
Pour Point °C (°F)	-27 (-17)
Viscosity, cSt @ 40°C	86.0
Viscosity, cSt @ 100°C	13.8
Viscosity Index	145
Cold Crank Simulator, cP @ -25°C	<7000
Total Base Number, D2896	7.5
Sulfated Ash, wt %	1.0 Max
Minor variations in typical physical properties may occur from normal manufacturing processes	

APPLICATIONS

LOTUS Lubes™ Hyper ULTRA Engine Oil is recommended for the following heavy-duty engine oil requirements:

- * Exceeds API Service Categories **CJ-4, CI-4 Plus, CI-4, CH-4, CG-4, CF-4 & (gasoline engines) SM, SL, SJ, SH**
- * Exceeds ACEA **E7-08, E9-08** performance standards
- * Exceeds Engine Manufacturer Performance Requirements: **Caterpillar ECF-2 & ECF-3, Cummins CES 20081, 20077, 20076, Detroit Diesel 93K218, Mack EO-O Premium Plus 07, EO-N, EO-M Plus, EO-M, Mercedes Benz 228.31, Allison C-4, Caterpillar TO-2, Volvo VDS-4, MAN M3275, JASO DH-2, Renault RLD-3 & Global DHD-1**