



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

PRODUCT DESCRIPTION

LOTUS Lubes™ Hyper BLEND Engine Oil SAE 10W-30 is formulated exclusively with premium Group II and synthetic base stocks to exceed the requirements of 2007 or later low-emission engines equipped with diesel particulate filters (DPF) and the performance standards of most global diesel engine manufacturers. Through its state-of-the-art additive system, **LOTUS Lubes™ Hyper BLEND Engine Oil** delivers optimum fleet fuel economy and low-temperature fluidity while providing excellent lubricity characteristics with ultra-low sulfur (ULS) diesel and low-sulfur EPA diesel fuels and maintains superior protection from engine wear.

LOTUS Lubes™ Hyper BLEND 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
- * OEM approved for late model engines
- * Technology proven in more than 2.5 Trillion Miles of heavy-duty engine operation
- * Synthetic-blend formulation delivers optimum fuel economy with outstanding wear protection
- * 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
- * High TBN formulation and excellent TBN retention maximize protection in extended drain internals



TYPICAL PHYSICAL PROPERTIES

SAE Grade	10W-30
API Service	CJ-4/SM
API Gravity @ 60°F	30.6
Flash Point, °C (°F)	226 (439)
Pour Point °C (°F)	-39 (-38)
Viscosity, cSt @ 40°C	82.9
Viscosity, cSt @ 100°C	12.4
Viscosity Index	149
Cold Crank Simulator, cP @ -25°C	6700
Total Base Number, D2896	10.0
Sulfated Ash, wt %	1.0 Max

Minor variations in typical physical properties may occur from normal manufacturing processes

APPLICATIONS

LOTUS Lubes™ Hyper BLEND 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, MTU Type I & II, JASO DH-2, Renault RLD-3 & Global DHD-1