Lube Control Pty Ltd

Product Information

Monolec Ultra® Engine Oil (8800-8801, 8130)

Extended-Drain CK-4 Oil Offers Ultimate Package of Performance & Protection for Diesel Engines

Monolec Ultra® Engine Oil (8800-8801 & 8130) provides exceptional performance and extended-drain service for on- and off-road diesel engines, including stationary engines. It has been formulated to exceed API's CK-4 technology standards focusing on engine wear protection, oxidation stability, shear stability, resistance to aeration, and compatibility with low emission engines. With its superior formulation of select base oils and Monolec®, LE's exclusive wear-reducing additive, Monolec Ultra offers dependable all-weather performance, reduces unscheduled downtime, and helps fleets achieve costs savings.

Beneficial Qualities

Cost-Saving Service

- Extends oil drain intervals* with specified filter changes and periodic oil analysis (ask your LE consultant about the Xamine® Oil Analysis Program)
- Reduces oil consumption
- Improves fuel economy
- Protects against engine wear, extending life

Premium Performance

- Protects against deposits, keeping engine parts clean
- Neutralizes acids generated from oxidation, preventing corrosive damage
- Prevents thermal degradation, loss of lubricity and engine cavitation with improved aeration control
- Decreases engine noise

All-Weather Performance

- Maintains viscosity at high and low temperatures
- Allows oil flow at extremely cold temperatures
- Ensures minimal drag during cold startups
- Effectively lubricates at high temperatures

*For mobile applications, intervals can be extended up to 100,000 miles or more.

Greener Technology

- Specially formulated to meet API CK-4 standards for low emission engines
- Compatible for use with biodiesel-containing fuels
- Compatible for use in vehicles equipped with diesel particulate filters
- Works in conjunction with EGR engines to manage soot and other exhaust contaminants
- Low SAPS formula minimizes poisoning of SCR systems and particulate filtration traps

Proprietary Additive

LE's proprietary additives are used exclusively in LE lubricants. Monolec Ultra® Engine Oil contains Monolec.

Monolec wear-reducing additive creates a single molecular lubricating film on metal surfaces, vastly increasing oil film strength without affecting clearances. An invaluable component in LE's engine oils, industrial oils and many of its other lubricants, Monolec allows opposing surfaces to slide by one another, greatly reducing friction, heat and wear.

Lubrication Engineers

Asset Reliability Solutions™

Lube Control Pty Ltd

Technical Data

Monolec Ultra® Engine Oil

	8800/8801*	8130
Color	Red/Amber	Red
SAE Grade	15W-40	10W-30
Relative Density @ 60°F/60°F, ASTM D1298	0.876	0.865
Viscosity @ 100°C, cSt, ASTM D445	15.25	12.22
Viscosity @ 40°C, cSt, ASTM D445	113.2	83.3
Viscosity Index ASTM D2270	141	142
Viscosity-HTHS @ 150°C, cP, ASTM D4683	4.0	3.5
Viscosity-CCS @ -25°C, cP, ASTM D5293	-	6,235
Viscosity-CCS @ -20°C, cP, ASTM D5293	4,635	-
Viscosity-MRV TP-1 @ -30°C, cP, ASTM D4684	-	21,860
Viscosity-MRV TP-1 @ -25°C, cP, ASTM D4684	17,840	-
Flash Point °C (°F), (COC), ASTM D92	221 (430)	221 (430)
Pour Point °C (°F), ASTM D97	-31 (-24)	-36 (-33)
Copper Corrosion 3 hrs @ 100°C, ASTM D130	1b	1b
Ash—Sulfated %, ASTM D874	1.00	1.00
Acid Number mg KOH/g, ASTM D664	3.46	3.21
Base Number ASTM D2896	10.0	10.0

*8801 is undyed

Performance Requirements Met or Exceeded

- ACEA E7, ACEA E9-2012
- API-SAE Service CK-4, CJ-4, CI-4, CI-4 Plus, CH-4
- Caterpillar, ECF-2 and ECF-3
- Cummins CES 20086, CES 20081
- Daimler MB 228.31
- Detroit Diesel DFS 93K222, DFS 93K218
- Ford WSS M2C171-F1
- Mack EOS-4.5, EO-O Premium PLUS, EO-N
- MAN M3575
- MTU category 2.1
- Renault RLD-4, RLD-3
- Volvo VDS-4.5, VDS-4, VDS-3

Typical Applications

- On- and off-road diesel engines, including over-the-road tractor trailers, pickup trucks, construction and mining equipment, farming equipment, and more
- Stationary diesel engines, such as generators and irrigation pumps
- Backward compatible for use in older diesel engines

Cautions

- Not for use in low-emission gasoline engines
- Not for use in engines with silver alloy bearings
- 8130: When used in Cummins engines requiring oil that meets the CES 20078 spec, do so in coordination with a used oil monitoring program.

Monolec Ultra® is a registered trademark of Lubrication Engineers, Inc.

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LE operates under an ISO 9001 Certified Quality System.