



Monolec® Ultrablend Engine Oil (8130)

**Synthetic Blend Oil with Robust Additive Package
Ensures All-Weather Performance & Wear Protection**

LE's Monolec® Ultrablend Engine Oil (8130) provides optimum performance and protection for diesel and gasoline engines. This SAE 10W-30 engine oil provides all-weather performance, including effective cold cranking at low ambient temperatures and excellent performance at higher temperatures. It also provides maximum wear performance, crucial for fleet and passenger car protection.

This balance of all-weather performance and engine wear protection is achieved through a carefully selected blend of synthetic and paraffinic base oils and an additive package that includes Monolec®, LE's exclusive wear-reducing additive.



Beneficial Qualities

All-Weather Performance

- High-quality, low-volatility mineral oil and synthetic base fluids provide excellent low-temperature properties
- Pour point depressants allow oil flow at sub-zero temperatures
- Shear-resistant VI improves maintain viscosity properties at both high and low temperatures

Wear Protection

- Monolec and other wear-reducing compounds act synergistically to control wear as pressures and temperatures rise
- Detergent and inhibitor additives reduce deposits, neutralize acids and defend metal from water
- Foam suppressants ensure lower oxidation rate, better heat transfer and continuous film of lubricant protection

Emission Reduction

- Low SAPS (sulfated ash, phosphorous and sulfur) formula minimizes poisoning of SCR (selective catalytic reduction) and particulate filtration traps

Cost Reduction

- Excellent oxidation stability and detergency allows for extended drain intervals
- Extended drain intervals reduce oil consumption
- Oil quality and performance also leads to reduced fuel consumption

Proprietary Additive

LE's proprietary additives are used exclusively in LE lubricants. Monolec Ultrablend 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.



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Color	Red
SAE Grade	10W-30
Relative Density @ 60°F/60°F, ASTM D1298	0.856
Viscosity @ 100°C, cSt, ASTM D445	12.40
Viscosity @ 40°C, cSt, ASTM D445	82.58
Viscosity Index ASTM D2270	140
Viscosity-HTHS @ 150°C, cP, ASTM D4683	≥2.900
Viscosity-CCS @ -20°C, cP, ASTM D5293	≤6,500
Viscosity-MRV TP-1 @ -30°C, cP, ASTM D4684	≤60,000
Flash Point °C (°F), (COC), ASTM D92	242 (467)
Pour Point °C (°F), ASTM D97	-39 (-38)
Acid Number mg KOH/g, ASTM D664	3.34
Base Number ASTM D2896	8.32

Performance Requirements Met or Exceeded

- ACEA E7-04, E4, E2 Demonstration
- Allison C-4 Transmission
- API CJ-4, CI-4, CI-4 Plus/SM, SL
- Caterpillar ECF-3, ECF-1
- Cummins CES 20081, CES 20077, CES20076
- Detroit Diesel 93K218, 93K215, 93K214
- Global DHD-1
- JASO DH-2 Demonstration
- Mack EO-O Premium Plus, 07, EO-N Premium Plus 03, EO-M Plus, EO-M
- MAN 3275

- MB P228.3
- MTU Type I & II
- Renault RLD-3
- Volvo VDS-4, VDS-3, VDS-2

Recommendations

- Compatible for use with diesel particulate filters
- Not for use with silver alloy bearings such as EMD engines (Electro-Motive Diesel)
- When used in Cummins engines requiring oil that meets the CES 20078 spec, do so in coordination with a used oil monitoring program.



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