



LE PRODUCTS
MANUFACTURED
UNDER AN ISO
9001:2000
CERTIFIED QUALITY
SYSTEM

8130 MONOLEC® ULTRA-BLEND ENGINE OIL

A heavy-duty, SAE 10W-30 engine oil designed for all-weather performance in gasoline and diesel engines.

LE's MONOLEC® Ultra-Blend Engine Oil possesses unsurpassed performance characteristics which are achieved through an equally unique combination of features. All season performance for effective cold cranking at low ambient temperatures and excellent performance at higher temperatures. This is made possible through a blend of select synthetic and paraffinic base oils.

LE's MONOLEC® Ultra-Blend Engine Oil contains MONOLEC®, LE's exclusive wear-reducing additive, proven to reduce wear by 24.2%. LE's MONOLEC® vastly increases film strength without affecting tolerances.



BENEFICIAL PROPERTIES:

- Formulated using high quality, low volatility mineral oil and synthetic base fluids that provide excellent low-temperature properties.
- Contains shear resistant viscosity index improvers that provide good viscosity properties at both high and low temperatures.
- Low SAPS (sulfated ash, phosphorous and sulfur) formula that minimizes poisoning of SCR (selective catalytic reduction) and particulate filtration traps, to reduce emissions.
- Acceptable for use in both new and used engines.
- Excellent oxidation stability and detergency that allows for extended drain intervals in both gasoline and diesel engines.
- Contains MONOLEC®, LE's proprietary wear-reducing additive.
- Designed for extended drain intervals, and can reduce oil and fuel consumption as well.
- Foam suppressants provide a continuous film of lubricant protection, lower oxidation rate and better heat transfer.
- Rust and corrosion inhibitors ensure higher alkaline additives which neutralize acid. An impervious film of rust inhibitor isolates metal from water.
- Additional wear-reducing compounds act synergistically with MONOLEC® to control wear as pressures and temperatures rise.
- Excellent pour point depressants allow LE's MONOLEC® Ultra-Blend Engine Oil to flow at sub-zero temperatures for all season, all weather performance.



WHAT IS MONOLEC®?

MONOLEC® is LE's exclusive wear-reducing additive which has proven its extraordinary performance in thousands of application. It is an invaluable component in LE's engine oils, industrial oils and other lubricants bearing the MONOLEC® trademark.

MONOLEC® creates a singular molecular lubricating film on the metal surface, vastly increasing film strength without affecting tolerances. MONOLEC® allows opposing surfaces to slide by one another, greatly reducing friction heat and wear.

**LUBRICATION
ENGINEERS, Inc.**

Leaders in Lubricants



8130 TECHNICAL DATA

PHYSICAL CHARACTERISTICS - TYPICAL:

| | |
|-------------------------------------|-------------|
| SAE Grade | 10W-30 |
| Gravity, °API | 31.1 |
| Viscosity, | |
| SUS @ 100°F | 340 |
| SUS @ 210°F | 64.6 |
| cSt @ 40°C | 77.3 |
| cSt @ 100°C | 11.5 |
| cP @ -25°C, ASTM D-5293 | 6,700 |
| cP @ -30°C, ASTM D-4684 | <60,000 |
| HTHS Viscosity @ 150°C, ASTM D-4683 | 3.7 |
| Viscosity Index | 140 |
| Color | Red |
| Flash Point, °F (°C) | 420 (215.5) |
| Pour Point, °F (°C) | -24 (-31.1) |
| Total Base Number (TBN) | 10 |
| Sulfated Ash | 1.0 |
| Elemental Sulfur, % | ≤0.40 |
| Elemental Phosphorous, % | ≤0.12 |

APPROVALS AND SPECIFICATIONS EXCEEDED

| | |
|----------------------------------|---|
| API CJ-4, CI-4, CI-4 Plus/SM, SL | Mack EO-O Premium Plus, 07, EO-N Premium Plus 03, EO-M Plus, EO-M |
| ACEA E7-04, E4, E2 Demonstration | Volvo VDS-4, VDS-3, VDS-2 |
| JASO DH-2 Demonstration | Cummins CES 20081, CES 20077, CES20076 |
| Allison C-4 Transmission | Detroit Diesel 93K218, 93K215, 93K214 |
| Global DHD-1 | Caterpillar ECF-3, ECF-1 |
| MB P228.3 | MTU Type I & II |
| Renault RLD-3 | MAN 3275 |

RECOMMENDATIONS

Not for use with silver alloy bearings such as EMD engines (Electro-Motive Division of GM). When used in Cummins engines requiring an oil that meets the CES 20078 spec do so in coordination with a used oil monitoring program.



**LUBRICATION
ENGINEERS, Inc.**

Leaders in Lubricants

