



## Monolec Ultra® Engine Oil (8800 & 8801)

### *Extended-Drain 15W-40 Oil Offers Dependable, Heavy-Duty Performance in Diesel Engines*

Monolec Ultra® Engine Oil is an SAE 15W-40 engine oil that provides exceptional extended-drain service for diesel engines in mobile equipment and stationary generators. With its superior formulation of select base oils, shear-stable viscosity improver and Monolec®, LE's exclusive wear-reducing additive, Monolec Ultra offers increased fuel efficiency, dependable all-weather performance and outstanding wear protection. (Monolec Ultra 8800 & 8801 are the same, except 8801 is undyed.)

#### **Beneficial Qualities**

##### *Cost-Saving Service*

- Extends drain intervals up to 100,000 miles in diesel engines with specified filter changes and periodic oil analysis (ask your LE consultant about LEAP<sup>SM</sup>, LE's oil analysis program)
- Reduces oil consumption
- Increases fuel efficiency
- Improves reliability and minimizes downtime

##### *Wear Prevention & Protection*

- Includes synergistic blend of high-quality base oil and oxidation inhibitors to prevent excessive thickening and deposit formation and to extend oil life
- Contains combination of wear-reducing agents
  - o Provides maximum wear prevention
  - o Extends engine life
- Keeps engine parts clean with heavy-duty detergents and dispersants

##### *All-Weather Performance*

- Provides good viscosity properties in all weather
  - o Ensures minimal drag during low-temp startups
  - o Effectively lubricates at high temps



##### *Emissions Reduction*

- 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

##### *LE Promise*

No other brand of petroleum lubricating oil, regardless of price, will be found superior in condition to LE's Monolec Ultra® Engine Oil at the end of any given period of use.

#### **Proprietary Additives**

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.



## Monolec Ultra® Engine Oil

### 8800/8801\*

Color	Red/Amber
SAE Grade	15W-40
Relative Density @ 60°F/60°F, ASTM D1298	0.877
Viscosity @ 100°C, cSt, ASTM D445	15.13
Viscosity @ 40°C, cSt, ASTM D445	117.9
Viscosity Index ASTM D2270	130
Viscosity-HTHS @ 150°C, cP, ASTM D4683	≥3.700
Viscosity-CCS @ -20°C, cP, ASTM D5293	6,700
Viscosity-MRV TP-1 @ -25°C, cP, ASTM D4684	24,450
Flash Point °C (°F), (COC), ASTM D92	221 (430)
Pour Point °C (°F), ASTM D97	-31 (-24)
Copper Corrosion	16
Ash—Sulfated %, ASTM D874	1.00
Acid Number mg KOH/g, ASTM D664	3.4
Base Number ASTM D2896	10.0



### Performance Requirements Met or Exceeded

- ACEA E7-04, E4, E2 Demonstration
- Allison C-4 Transmission
- API-SAE Service CJ-4, CI-4 Plus, CF/SM
- CAT ECF-3, ECF-1a
- Cummins CES 20081, CES 20077, CES 20076
- Detroit Diesel 93K218, 93K215, 93K214
- Global DHD-1 Demonstration
- 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

### Typical Applications

- Diesel engines (fleet)
  - On- and off-road mobile equipment, including over-the-road tractor trailers, pickup trucks, construction equipment, farming equipment, motorcycles and more
  - Specially formulated for low-emission and ultra low sulfur diesel (ULSD) engines and backwards compatible for use in older diesel engines
- Diesel engines (industrial)
  - Stationary generators
- Gasoline engines
  - When consolidating engine oils for mixed fleet use

### Recommendations

- Compatible for use with Diesel Particulate Filters
- Not for use with silver alloy bearings such as EMD engines (Electro-Motive Division of GM)

\*8801 is undyed