

# Product Information



## Monolec® GFS Engine Oil (8420-8450)

*Superior Single Grade Oil Extends Drains in Diesel Engines*

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Monolec® GFS Engine Oils are a family of SAE 20 through 50 straight-grade engine oils formulated for extended drain service, primarily in off-road diesel engines. They contain Monolec, LE's exclusive wear-reducing additive, and are specified mostly for engines but are also sometimes used in industrial applications, such as air compressors.



### Beneficial Qualities

#### Technologically Superior

- Contains high quality base fluid for excellent oxidation resistance and film strength
- Keeps engines clean with exceptional detergency
  - Controls formation of deposits in piston ring zones and valve areas
- Protects against rust and corrosion

#### Long Lasting

- Exhibits excellent oxidation stability and detergency
- Delivers longer effective oil life than ordinary engine oil
  - Extends drain intervals
  - Reduces oil consumption

#### Available SAE Grades

- 20 (8420)
- 30 (8430)
- 40 (8440)
- 50 (8450)



### Proprietary Additives

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

	<b>8420</b>	<b>8430</b>	<b>8440</b>	<b>8450</b>
<b>Color</b>	Red	Red	Red	Red
<b>SAE Grade</b>	20	30	40	50
<b>Relative Density @ 60°F/60°F, ASTM D1298</b>	0.877	0.882	0.885	0.889
<b>Viscosity @ 100°C, cSt, ASTM D445</b>	8.760	11.88	16.10	19.84
<b>Viscosity @ 40°C, cSt, ASTM D445</b>	66.20	105.7	165.4	219.5
<b>Viscosity Index ASTM D2270</b>	95	95	95	95
<b>Viscosity-HTHS @ 150°C, cP, ASTM D4683</b>	≥2.600	≥2.900	≥3.700	≥3.700
<b>Viscosity-CCS @ -20°C, cP, ASTM D5293</b>	≤9,500	-	-	-
<b>Flash Point °C (°F), (COC), ASTM D92</b>	207 (405)	218 (425)	232 (450)	246 (475)
<b>Pour Point °C (°F), ASTM D97</b>	-30 (-22)	-27 (-17)	-24 (-11)	-18 (0)
<b>Copper Corrosion</b>	1b	1b	1b	1b
<b>Ash—Sulfated %, ASTM D874</b>	1.0	1.0	1.0	1.0
<b>Acid Number mg KOH/g, ASTM D664</b>	2.50	2.50	2.50	2.50
<b>Base Number ASTM D2896</b>	10.0	10.0	10.0	10.0

### Performance Requirements Met or Exceeded

- API-SAE Service CF/SJ (Unlicensed)
- Caterpillar TO-2
- CCMC D-4, D-5
- DB 226.0
- DB 227.0
- Detroit Diesel Allison C-4
- Ford ESE M2C-153-E
- GM 6094M
- Mack EO-K
- Mack EO-K/2
- MIL-L-2104E
- MIL-L-46152E
- USDA H2
- VW 501.01

### Typical Applications

- Off-road diesel engines
- Air compressors

### Recommendations

- Not for use in equipment with silver alloy bearings, such as EMD (Electro-Motive Division of GM).
- With any engine oil, it is good practice to employ a used oil monitoring program to safely optimize extended drain intervals.

