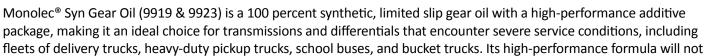
# **Product Information**



# Robust Formula Provides Long-Lasting Protection in Severe Service, including High & Low Temperatures



break down in severe service. It resists gear and bearing wear, viscosity loss, foaming, high-temperature oxidation, and volatility, allowing it to deliver long-lasting protection for any application where extreme pressure and shock loading is expected, including industrial gearboxes that require enhanced EP protection.

In addition, Monolec Syn Gear Oil's high-performance formula features a high viscosity index and low pour point that work together to provide high-temperature film thickness and low-temperature fluidity, allowing it to be used in a wide range of environments – from very hot to below freezing.



### **Beneficial Qualities**

## Delivers Exceptional Limited Slip Performance

- Eliminates "chatter" or "squawk" that results from improper lubrication of limited slip differentials
- Provides smooth engagement of friction plates
- Maintains limited slip performance throughout life of oil

#### Provides Reliable, Long-Lasting Service

- Resists shearing and maintains viscosity in service
- Remains thermally stable
- Prevents formation of carbon deposits
- Reduces operating temps by transferring heat from gears
- Protects gears from wear, heavy loads and shock loading

- Increases equipment reliability, reducing replacement and repair costs
- Suppresses foam

# Performs in High and Low Temperatures

- Provides high-temperature oxidation resistance
- Is reliable for low-temperature startups
- Flows well at below freezing conditions

### Reduces Oil Consumption & Other Costs

- Extends drain intervals due to long oil life
- Requires less make-up oil due to low volatility
- Reduces environmental impact with less waste oil for disposal
- Reduces maintenance and replacement costs by reducing wear

### **Proprietary Additive**

LE's proprietary additives are used exclusively in LE lubricants. Monolec® Syn Gear 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.



# **Technical Data**



### **Monolec® Syn Gear Oil**

	9919	9923
Color	Green	Green
SAE Grade	75W-90	75W-140
Relative Density @ 60°F/60°F, ASTM D1298	0.871	0.891
Viscosity @ 100°C, cSt, ASTM D445	15.0	26.0
Viscosity @ 40°C, cSt, ASTM D445	100.0	190.0
Viscosity Index ASTM D2270	157	171
Viscosity-Brookfield @ -40°C, cP, ASTM D2983	<50,000	<150,000
Flash Point °C (°F), (COC), ASTM D92	226 (429)	220 (428)
Pour Point °C (°F), ASTM D97	-54 (-65)	-45 (-49)
Copper Corrosion 3 hrs @ 100°C, ASTM D130	1b	1b
Timken OK Load lbs, ASTM D2782	90	90
FZG Scuffing Load Capacity Fail Stage, ASTM D5182	>12	>12

#### **Important Note**

• Not recommended where API GL-4 performance is required.

### **Performance Requirements Met or Exceeded**

- API GL-5
- API MT-1
- Service Fill Limited Slip
- USDA H2
- ZF TE-ML 07A
- ZF TE-ML 08

### **Typical Applications**

- Differentials & non-synchronized transmissions in:
  - ♦ Over-the-road fleets
  - ♦ Off-highway equipment
  - ♦ Stop-and-go vehicles
  - ♦ All trucks that fall within the DOT Gross Vehicle Weight Rating of Class 1 to Class 6.
- Industrial gearboxes and worm drives that:
  - ♦ Call for SAE 75W-90 gear oil (9919)
  - ♦ Call for SAE 75W-140 gear oil (9923)
  - ♦ Are subjected to low and/or high temperatures





 $\label{eq:monolec} \mbox{Monolec} \mbox{$^{\$}$ is a registered trademark of Lubrication Engineers, Inc.}$ 

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