Product Information

Monolec® Gear Lubricant (703-704)

Extreme Pressure Gear Lubricant Meets Demanding Requirements of Most Differentials and Transmissions

Monolec® Gear Lubricant (703-704) offers the versatility of one product that meets the demanding fleet requirements of all types of differentials (including limited slip) and transmissions, as well as most industrial enclosed gearboxes. A multiviscosity extreme pressure gear oil, Monolec Gear Lubricant was formulated to achieve the proper balance between load-carrying capacity, film strength and lubricity.

Beneficial Qualities

Wear Prevention

- Provides exceptional wear resistance, ensuring longer gear life and less maintenance expense
- Possesses high film strength, keeping metal surfaces separated
- Offers outstanding rust and corrosion resistance

Long-Lasting Reliable Service

- Provides superior oxidation stability and long life
- Maintains low operating temps by reducing friction
- Breaks up foam bubbles as they form
- Separates readily from water
- Prevents sludge deposits
- Extends drain intervals with less make-up between drains
- Does not affect seals

Versatility

- Multiviscosity for use in all seasons
- Delivers exceptional performance in most types of gearboxes
- Can be used in most differentials and transmissions

Available Grades

- SAE 80W-90 (703)
- SAE 85W-140 (704)

Proprietary Additive

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

	703	704
Color	Red	Red
SAE Grade	80W-90	85W-140
Relative Density @ 60°F/60°F, ASTM D1298	0.884	0.897
Viscosity @ 100°C, cSt, ASTM D445	15.12	28.25
Viscosity @ 40°C, cSt, ASTM D445	155.5	403.5
Viscosity Index ASTM D2270	95	95
Viscosity-Brookfield @ -26°C, cP, ASTM D2983	≤150,000	-
Viscosity-Brookfield @ -12°C, cP, ASTM D2983	-	≤150,000
Flash Point °C (°F), (COC), ASTM D92	198 (388)	204 (399)
Pour Point °C (°F), ASTM D97	-27 (-17)	-15 (5)
Copper Corrosion 3 hrs @ 121°C, ASTM D130	1b	1b
Timken OK Load lbs, ASTM D2782	70	70
Acid Number mg KOH/g, ASTM D664	1.0	1.0
Evaporation 22 hrs @ 100°C, % loss, ASTM D972	1.3	1.3

Performance Requirements Met or Exceeded

- AGMA 9005-D94
- API GL-5 & MT-1
- CS-3000B
- Diamond Power Soot Blower
- Mack GO-H
- PG-2
- Rockwell (0-76-D, 0-76-A)
- SAE J2360 (April 2012)
- USDA H2

Recommendations

- Not an automatic transmission, hydraulic or semi-automatic transmission oil
- Not for use in common sump systems that use combination gear-hydraulic oil, hydraulic oil or a power steering fluid

Typical Applications

- All differentials and transmissions specifying an EP lubricant (except those requiring pure mineral oil), including:
  - Over-the-road and stop-and-go fleets
  - Off-highway equipment transfer cases, overdrive units, oil-lubricated wheel bearings and steering gearboxes
  - Limited slip differentials
  - Rockwell and Eaton axles
  - Heavily loaded industrial gearboxes
  - Any gearboxes that have bronze gears, thrust washers or other parts that require an EP gear oil
  - Worm gearboxes calling for EP gear oils
  - Especially appropriate for machine tools and other precision gearing because low wear rate keeps them within specification longer

LI50004 rev. 09-17

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LE operates under an ISO 9001 Certified Quality System.

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