



703-704 MONOLEC® Gear Lubricant

An EP gear lubricant for use in differentials and transmissions.

703 and 704 Monolec® Gear Lubricants are versatile, multi-viscosity, extreme pressure gear oils. They meet the demanding fleet requirements of all types of differentials (including limited slip), transmissions and industrial enclosed gearboxes, that require multi-viscosity EP gear oils.

All of the features give the user many performance benefits; longer gear life with less maintenance expense, fewer hours of lost production, extended drain intervals with less make-up between drains, and the versatility of one product that can deliver exceptional performance in almost all types of gearboxes.

USER BENEFITS:

REDUCED WEAR

- These heavy duty oils contain MONOLEC, LE's exclusive wear-reducing agent, which has proved its extraordinary performance in thousands of documented applications.
- Carefully selected and refined paraffinic base oils have exceptional oxidation resistance and are highest in natural viscosity index. In addition they provide a tough film strength to keep metal surfaces separated and possess inherent moisture resistance.
- Sophisticated non-corrosive, extreme pressure (EP) additive package.

LONG SERVICE LIFE

- The powerful additive package provides maximum rust, corrosion and oxidation resistance. Plus Monolec and the base oil's natural resistance to oxidation and sludge deposits, thus giving longer effective lubricant life.
- A potent anti-foam agent keeps operating temperatures low by breaking up entrapped air bubbles as they form.

VERSATILITY

- Can be used in most differentials and transmissions.
- Grades:

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

TYPICAL APPLICATIONS:

- Rockwell and Eaton Axles
- Heavily Loaded Industrial Gearboxes
- Worm Gearboxes Calling for EP Gear Oils
- All Differentials and Transmissions in over-the-road and stop-and-go fleets and off-highway equipment transfer cases, overdrive units, oil lubricated wheel bearings and steering gearboxes, specifying an extreme pressure (EP) lubricant.

WHAT IS MONOLEC®?

Monolec® is LE's exclusive wear-reducing additive which has proven its extraordinary performance in thousands of applications. 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

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LE operates under an ISO 9001
Certified Quality System.



TECHNICAL DATA BULLETIN

703-704 MONOLEC® Gear Lubricant

DESCRIPTION:

Multiviscosity extreme pressure (EP) gear oils. Select paraffinic base stocks blended with exceptional additives to achieve the proper balance between maintaining high load-carrying capabilities while providing excellent lubricity and film strength.

Contains Monolec®, LE's exclusive wear-reducing additive. Recommended for Rockwell axles, Eaton axles, Mack gearing, limited slip differentials and heavily loaded industrial enclosed gearboxes.

PHYSICAL CHARACTERISTICS—TYPICAL:

	703	704
SAE Grade	80W-90	85W-140
Gravity, °API	28.6	26.2
Viscosity,		
SUS @ 100°F	814.0	2148
SUS @ 210°F	79.69	138.1
cSt @ 40°C	155.5	403.5
cSt @ 100°C	15.12	28.25
Viscosity Index, min.	95	95
Brookfield Viscosity,		
@ -15°F (-26°C) cPs, max.	150,000	—
@ +10°F (-12°C) cPs, max.	—	150,000
Color	Red	Red
Flash Point, °F (°C)	388 (198)	399 (204)
Pour Point, °F (°C)	-17 (-27)	5 (-15)

PERFORMANCE TEST RESULTS:

Timken OK Load, lbs., ASTM D2782	70	70
Foam Test, ASTM D892	Pass	Pass
Copper Corrosion, ASTM D130	1b	1b
Evaporation (%), ASTM D972 (212°F/100°C)	1.3	1.3

SPECIFICATIONS EXCEEDED:

AGMA 9005-D94	Diamond Power Soot Blower
CS-3000B	USDA H2
Mack GO-H	MIL-PRF-2105D(E)
Rockwell (0-76-D, 0-76-A)	API GL-5
API MT-1	PG-2

APPLICATION:

Use in all differentials and transmissions (except those requiring pure mineral oil) on over-the-road and stop-and-go fleets, as well as off-highway equipment. Can be used in Rockwell axles and Eaton axles. Use in limited slip differentials. Approved for use in units calling for Mack GO-H Thermally Stable Gear Oils. Use in all heavily loaded industrial enclosed gears. Use in worm gearboxes and in any gearboxes that have bronze gears, thrust washers, or other parts that require an extreme pressure gear oil.

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CERTIFIED QUALITY SYSTEM.**

RECOMMENDATION:

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

BENEFICIAL QUALITIES:

Offers exceptional protection to worm gears and bronze parts.

Especially appropriate for machine tools and other precision gearing because low wear rate keeps them within specification longer.

Reduces wear.

Select paraffinic crudes and special refining provide superior oxidation stability and long life.

Passes Moisture Corrosion Test. Gives excellent protection against rust and corrosion.

High film strength, 70 lb. Timken pass.

Passes Thermal Oxidation Stability Test. Long service life.

Nonfoaming.

Does not affect seals.

Multiviscosity for use in all seasons.