

MAX-GEAR[®]

High Performance Synthetic Gear Oil



Beyond Synthetic™

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Max-Gear[®] is recommended for use in truck and automotive differentials, outboard motor lower units or in rear axles or manual transmissions requiring an API GL-5 or GL-4 fluid. Max-Gear[®] is suitable for use in Limited Slip / Positrac applications.

Max-Gear[®] is an ultra-tough, high performance, GL-5 automotive gear oil designed to provide maximum protection to heavily loaded gears while maximizing power throughput through the drive train. It outperforms other GL-5 gear oils because it combines the highest quality synthetic oils with Royal Purple's proprietary Synslide[®] additive technology. Max-Gear[®] makes gears run smoother, quieter, cooler and longer without overhauls.

Synslide[®] additive technology makes the difference!

Synthetic oils enable Royal Purple to make superior lubricants, but it is Royal Purple's advanced Synslide[®] additive technology that gives Royal Purple's EP lubricants their amazing performance advantages. Synslide[®] additive technology truly is *beyond synthetic*.™

Synslide[®] additive technology, Royal Purple's tough, EP lubricating film, provides maximum protection under boundary lubrication conditions typically caused by heavily loaded, slow speed and / or shock load conditions. This tenacious, slippery film significantly improves lubrication and reduces wear by increasing the oil film thickness and toughness, which helps to prevent metal-to-metal contact in gears and bearings.

Synslide[®] additive technology is noncorrosive to gears and bearings, including case-hardened gears that are easily pitted by conventional sulfur-phosphorus EP oils. Synslide[®] additive technology displaces water from metal surfaces and excels in protecting equipment in wet environments. It also fortifies the oil against the detrimental effects of heat, which causes oil to oxidize.

Performance Advantages:

- **Severe Service Performance**
Max-Gear[®] exceeds Eaton's stringent GL-5 / MIL-L-2105D Gear Oil Specs. Max-Gear[®] also is safe for GL-4 applications or bronze synchro gears.
- **Lower Coefficient of Friction**
Max-Gear[®] saves energy, reduces temperatures and maximizes power throughput. (OEM or aftermarket limited slip additives are not required.)
- **High Temperature Performance**
Max-Gear[®] eliminates harmful deposits and extends oil drain intervals.
- **Low Temperature Fluidity**
Max-Gear[®] meets operating requirements for vehicles operating in cold climates.
- **Shock Load Protection**
Max-Gear[®] reduces fatigue failures in bearings and gears.
- **Prevents Corrosion**
Max-Gear[®] protects both ferrous and nonferrous metals during operation and shutdown.
- **Excellent Water Separation**
Max-Gear[®] completely separates from water, preventing an oil-water emulsion.
- **Compatible with Other Oils**
Max-Gear[®] is compatible with other mineral gear oils and other synthetic hydrocarbon gear oils.
- **Meets Warranty Requirements**
Max-Gear[®] meets or exceeds OEM warranty requirements for GL-5 automotive rear axle hypoid gear lubrication.
- **Environmentally Responsible**
Max-Gear[®] components are TSCA listed and meet EPA, RCRA and OSHA requirements. Max-Gear[®] extends oil drain intervals, eliminates premature oil changes, decreases the amount of oil purchased and disposed of and conserves energy.

Typical Properties*	SAE Grade				
	75W90	75W140	80W90	90	85W140
Viscosity					
cSt @ 40°C	132.3	247.0	150.3	194.3	324.4
cSt @ 100°C	19.1	33.0	16.8	19.2	28.5
SSU @100°F	677	1261	782	1018	1708
SSU @ 210°F	97	160	87	98	140
CP @ -12°C	—	—	—	—	30,000
CP @ -26°C	—	—	50,000	—	—
CP @ -40°C	100,000	130,000	—	—	—
Flash °F	380	375	395	390	375
Fire °F	465	465	470	475	435
Pour Point °F	-54	-69	-33	-33	-17
Corrosion Test					
Copper	Pass	Pass	Pass	Pass	Pass
Bronze	Pass	Pass	Pass	Pass	Pass
Rust Test					
Fresh Water	Pass	Pass	Pass	Pass	Pass
Salt Water	Pass	Pass	Pass	Pass	Pass
Foam Test	Pass	Pass	Pass	Pass	Pass
Timken OK Load, Lbs.	100	100	100	100	100
Four Ball EP Test					
Weld Load, kgf	400	400	400	400	400
Specific Gravity @ 60°F	0.895	0.895	0.901	0.897	0.908
Lbs. / Gal	7.45	7.45	7.50	7.47	7.56

*Properties are typical and may vary