

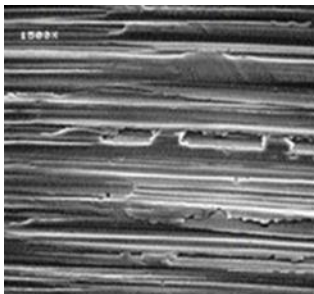
Max-Gear

HIGH-PERFORMANCE EXTREME PRESSURE GEAR OIL

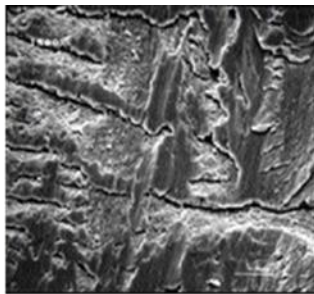
Royal Purple[®] Max Gear[®] is recommended for use in automotive front and rear differentials, manual transmissions and transfer cases that specify use of an API GL-4 or GL-5 fluid. It is noncorrosive to soft yellow metals (brass, bronze, copper), and is synchronizer safe. Max-Gear also works great in marine gear applications. Not for use in gear boxes, transmissions and lower units with wet clutches.

Max Gear is an ultra-tough, high performance gear oil designed to provide maximum protection to heavily loaded gears while maximizing power throughout the drivetrain. Max Gear outperforms ordinary gear oils by combining the highest quality synthetic oils with Royal Purple's proprietary Synerlec[®] additive technology.

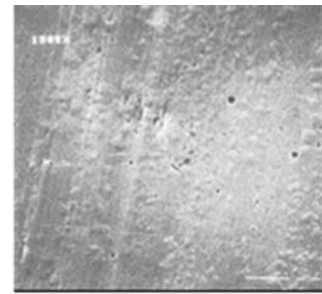
Royal Purple's advanced and proprietary Synerlec[®] technology provides an exceptional film strength increase compared to other engine oils. The protection provided by Synerlec[®] dramatically reduces metal-to-metal contact and frictional wear, helping to extend transmission life and reduce parasitic power loss through the vehicle drive train. Synerlec[®] also provides the lubricant with outstanding oxidation resistance to increase lubricant useful life and safely extend oil drains. The ionic attraction of Synerlec[®] to metal components provides unmatched wear protection, even before the oil is fully circulating.



New Bearing*



After Leading Synthetic*



After Royal Purple
w/ Synerlec*

PERFORMANCE ADVANTAGES

- BETTER WEAR PROTECTION - Prevents wear of gears and bearings beyond OEM specification requirements
- INCREASED EFFICIENCY – Increased fuel economy and power benefits due to reduced parasitic loss through the drive train
- REDUCED TEMPERATURES – Superior separation of metal surfaces and greater lubricity reduces friction and heat generation
- EXCELLENT DEMULSIBILITY – Separates from water; water contamination of the axle can be drained leaving serviceable gear oil
- SUPERIOR CORROSION PROTECTION - No rust observed in standard industry testing
- IMPROVED SHIFTING – Lowered friction and improved metal surfaces provide smoother and more consistent shift performance



TECHNICAL DATA SHEET

RECOMMENDED SPECIFICATIONS

- API GL-4
- API GL-5
- API MT-1
- SAE J2360
- Mack GO-J
- MIL-PRF-2105E

Typical Physical Properties					
Property	Test Method	75W-90	80W-90	75W-140	85W-140
Viscosity @ 40°C, cSt	ASTM D445	100	160	187	313
Viscosity @ 100°C, cSt	ASTM D445	16.5	17.4	27.5	28.5
Viscosity Index	ASTM D2270	179	118	185	123
Flash Point, °C (°F)	ASTM D92	163 (325)	177 (350)	191 (375)	177 (350)
Pour Point, °C (°F)	ASTM D97	-51 (-60)	-39 (-38)	-54 (-65)	-39 (-38)
Brookfield Viscosity, cP	ASTM D2983	65,000 @-40°C	57,000 @-26°C	135,000 @-40°C	22,000 @-12°C
Copper Corrosion	ASTM D130	1A	1A	1A	1A
4-Ball EP, Load Wear Index	ASTM D2783	66.0	64.6	65.2	64.1
4-Ball EP, Weld Load, kg	ASTM D2783	315	315	315	315

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