



TRiAX SYNERGY GEAR MAX

EP FULL SYNTHETIC ULTRA LONG DRAIN GEAR LUBRICANTS FOR AXLES, HYPOID GEARS AND DIFFERENTIALS

PERFORMANCE LIKE NOTHING ELSE™

TRiAX SYNERGY full synthetic gear lubricants are extreme performance extreme pressure, API GL-5 Limited Slip gear oils designed for a very wide range of applications and gear systems. They are built with a top tier proprietary additive system and select base oils, delivering exceptional performance, gear protection, in high load, high torque applications for very long periods of time.

TRiAX gear lubricants are designed to endure very high stress conditions, such as those found in heavy-duty transmissions, without loss of viscosity or wear additives, preventing rapid lubricant degradation, wear and oxidation in a very wide variety of applications and nearly all environmental conditions. Performance Characteristics TRiAX Synergy Gear MAX meets the requirements of Eaton Roadranger E500 gear lubricants for extended drain intervals up to 750,000 miles (1,200,000 km) in on road heavy duty trucks and 500,000 miles for regular sized pickups and passenger cars. Due to its extreme shear stability, very long and economical drain intervals are possible, without compromising equipment functionality. The product has outstanding performance in both very hot and very cold temperatures, maintains its viscosity and flow properties and prevents acid and carbon varnish formation.

PERFORMANCE SUMMARY

EXCEPTIONAL WEAR CONTROL

Prevents micropitting, fatigue wear and normal scuffing under high load, high temperature conditions. Dramatically improves gear, bearings and transmission life.

EXTENDED DRAIN INTERVALS

Advanced shear stable chemistry permits extremely long drain intervals and provides significant savings from down time and fluid costs.

SUPERIOR VISCOSITY STABILITY

Very high viscosity index and shear stability assures the lubricant stays in grade in both very high and very low temperature operations.

WIDE RANGING COMPATIBILITY

Compatible with most mineral gear oils. Allows easy changeover from mineral to synthetic. Also provides a wide range of compatibility with transmission seals, soft metals and ferrous and non-ferrous transmission / gear box components.

GREATLY EXCEEDS EP AND AW TESTS FZG AND L-37

Proven protection far beyond spec requirements, delivers excellent EP (extreme pressure) and AW (anti-wear) performance in a wide range of LS and NON-LS gear systems, with hypoid and other gears.

EXCEPTIONAL LOAD BEARING CAPACITY

TRiAX Synergy Synthetic gear lubricants exceed the highest load test rating, Stage 14.

APPLICATIONS

TRiAX Synergy gear lubricants are designed for hypoid gear systems, manual transmissions, axles and differentials in a very wide range of applications, both with and without limited slip requirements. These products are recommended for virtually all applications requiring a 75W90, 75W140 or SAE 50 gear lubricant: heavy duty trucking, construction, mining, buses, passenger cars, racing, agriculture.

WHAT ARE THE BENEFITS OF USING TRIAX SYNERGY 75W90 VS AN 80W90 GEAR OIL AND MOST OTHER SYNTHETICS?

- Up to 5 times the drain interval
- Reduced operating cost per mile / hour
- Superior EP protection in all service categories
- Superior shear stability and oxidation control
- 3% fuel economy
- Improved torque transfer characteristics

SPECIFICATIONS

- API GL-5, MT-1 Limited Slip, Extreme Pressure Hypoid Gears
- MIL PRF-2105E, MIL-PRF-2105D, Mack GO-G, GO-H, GO-J, GO-J Plus
- Mack GO-J PLUS
- SAE J2360
- Eaton Roadranger E500
- Scania STO 1:0
- ZF TE-ML 07A/08
- Dana SHAES 429 Rev. A
- DANA SHAES 256 Rev. C
- Meritor 0-76N
- MB-Approval 235.8
- International TMS-6816
- ZF TE-ML 05B/16F/21B
- ZF TE-ML 12B
- Voith Turbo 132.00374401 / 132.00374402
- U.S. Steel Specification 224
- Ford WSL-M2C192-A (75W140)
- Meritor 0-76M (75W140)

DRAIN INTERVALS

**HIGHWAY CLASS 8 TRUCKS
HEAVY DUTY GENERIC
PASSENGER CARS / SUVs
RACING**

**750,000 MILES
500,000 MILES
500,000 MILES
OIL ANALYSIS**



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FIELD TESTED

Finished products have been tested extensively in heavy duty applications such as 7500 quad axle severe service mining trucks and Indy 500, with outstanding performance and protection throughout the test period.

L-37 TEST RESULTS (ANTI-WEAR, LOAD-CARRYING AND SCUFFING LOAD CAPABILITIES TESTING)

RING GEAR AND PINION GEARS

- Ratings on rings and pinion are classified as excellent
- Exceeds J2360 and API GL-5 requirements
- No scoring: 10+ merits
- Wear - 62% better than specification requirements
- Rippling - 22% better than specification requirements
- Ridging - 21% better than specification requirements
- Pitting - 11% better than J2360 specification requirements
- Exceeds LOAD STAGE 14 rating

DOES NOT REQUIRE THE USE OF LIMITED SLIP ADDITIVES OR FRICTION MODIFIERS FOR DIFFERENTIALS WITH BUILT IN WET BRAKES.

CHEMICAL PROPERTIES

TEST CRITERIA	75W140	75W90
SPECIFIC GRAVITY @ 60F	0.8594	0.8658
KINEMATIC VISCOSITY		
@ 40C	168.20	102.6
@100 C	27.1	15.3
VISCOSITY INDEX	199	162
BROOKFIELD VISCOSITY		
cP at -40C Max	125,000	85,000
FLASH POINT (F)	478	383
POUR POINT C(F)	- 44 (-47)	-46 (-51)
COLOR	3.50	1

**SMALL DEVIATIONS FROM THIS DATA ARE EXPECTED AND A NORMAL PART OF THE MANUFACTURING PROCESS
THESE SMALL VARIATIONS DO NOT AFFECT PERFORMANCE OR SPECIFICATIONS.**