



TECHNICAL DATA

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#751M SYNTHETIC LUBE E.P. 75W-90 W/M

Synthetic Lube EP 75W-90 W/M is a thermally stable heavy duty extreme pressure full synthetic gear lubricant that is specially formulated for use in all automotive gear drives, which require a gear oil to operate under severe wide ambient temperature ranges. Synthetic Lube EP 75W-90 W/M is formulated for to meet and exceeds Eaton®, Fuller RoadRanger and Meritor (formally Rockwell International) lubrication requirements.

Synthetic Lube EP 75W-90 W/M is compounded from the finest quality Polyalphaolefin (PAO) synthetic base fluids available. These synthetic base fluids provide the Synthetic Lube EP 75W-90 W/M with the following advantages:

- 1. Excellent low temperature properties. This results in the bearings and gears being instantly lubricated at sub-zero temperatures the moment they start turning.**
- 2. Superior oxidation stability.**
- 3. Excellent resistance to thermal degradation**
- 4. Excellent hydrolytic and demulsibility characteristics**
- 5. Low coefficients of traction, which result in fuel economy benefits.**
- 6. A high viscosity index**
- 7. Increased wear protection and longer gear life**
- 8. Compatibility with all types of seals.**

Blended into these PAO synthetic base fluids is a non-corrosive multi-functional additive package that provides the Synthetic Lube EP 75W-90 W/M with extreme pressure and anti-wear properties to protect gears and bearings under a wide variety of operating conditions from excessive wear, premature bearing and gear fatigue, spalling, pitting and scoring. This additive package also provides the Synthetic Lube EP 75W-90 W/M with excellent rust and corrosion inhibiting properties and demulsibility characteristics.

Continued On Next Page

TD-751M (03/2010)

Synthetic Lube EP 75W-90 W/M contains a proven friction reducer and boundary called Micron Moly®. Micron Moly® is a liquid soluble type moly that plates itself to the metal surfaces of the gears and bearings. Once plated, Micron Moly® forms an indestructible long lasting solid lubricant film that is capable of withstanding pressures up to 500,000 psi. This solid lubricant film once plated to the gears and bearings will reduce friction, vibration and wear, thus extending equipment life.

Micron Moly® also provides a smooth finished surface on all moving parts of the gear drives. This smooth finish minimizes the action of cold welding and vibration, which can occur during start up after the gears have been standing idle and during periods of high shock loading. This in turn lessens starting loads and peak power demand; thus, resulting in a realistic fuel economy cost savings.

Synthetic Lube EP 75W-90 W/M contains the proper additive system that allows the product to properly function and lubricate limited slip, positraction and high offset hypoid gear rear ends and differentials.

Synthetic Lube EP 75W-90 W/M is formulated to meet and exceed the following specifications and manufacturers requirements: API Service Classifications GL-5 and MT-1; Military Specification MIL-PRF-2105E, SAE 2360, Mack GO-J, Clark MS-8 Rev. 1, Ford M2C-119A, M2C-197-A, MC2108C, M2C158A General Motors Specifications 9985476, 9985044, Chrysler MS8987 and MB 235.7, Mack GO-J and GO-J Plus, Eaton Axle PS-037, PS-037, PS-163, PS-109 (75W-90), Navistar TMS 6816, Meritor Automotive O-76E (75W-90), O-76N (75W-90) and O-80, VME America's EEMS S19003F, EEMS19107, Dana-Spicer Axle Lubricant Specifications, White Motor MS0016, Volvo, Volkswagen.

Typical Properties on Next Page

Typical Properties

SAE Grade	75W-90
Specific Gravity @ 60°F/1536°C	0.891
Viscosity, cSt @ 40°C (ASTM D-445)	122
Viscosity, cSt @ 100°C (ASTM D-445)	16.00-18.00
Viscosity, cP °F/°C (ASTM D-2683)	
@ 10°F/-12°C	----
@ 0°F/-18°C	7,125
@ -20°F/-29°C	24,500
@ -40°F/-40°C	125,000
Viscosity Index (ASTM D-2270)	147
Pour Point °F/°C (ASTM D-97)	-40°/-40°
Flash Point °F/°C (ASTM D-92)	430°/221°
Copper Strip Corrosion Test (ASTM D-130)	
3 hours @ 100°C	1a
FZG Test (ASTM D-5182)	
Failure Stage	12 th
Timken EP Test (ASTM D-2782)	
OK Load, lbs	50

Packaging: Synthetic Lube EP E/A Gear Lubricants are available in 420lb. drums, 120lb. kegs and 40lb. pails.