

## Drive Axle Lubricant Data Sheet

Roadranger FE (Fuel Efficient) 75W-90 Synthetic Axle Lube is an API GL-5 extreme pressure gear lubricant designed for improved fuel economy in heavy, mid and light-duty applications compared to typical petroleum 80W-90 or synthetic 75W-90 gear lubricants. It is formulated using synthetic base stock, which has a high viscosity index and an exceptionally low pour point. This lubricant contains extreme pressure additives, as well as rust, oxidation and corrosion inhibitors to protect gears and bearings operated under a wide variety of load conditions. The fluid also has an optimized viscosity to allow lower churning losses and still maintain adequate bearing and gear protection. The high and low temperature performance of this product exceeds those of conventional SAE 80W-90, SAE 90, and 75W-90 automotive gear lubricants.

### Outperforms Conventional Gear Lubricants

Roadranger FE 75W-90 Fuel Efficient Synthetic Axle Lube outperforms conventional gear lubricants to promote longer gear life and better operating economy. Some of the major advantages are:

- *Better operating performance* – As a result of the superior lubricating properties and lower viscosity profile of Roadranger FE 75W-90, improved fuel mileage can be realized.
- *Increased gear life* – This extreme pressure (EP) lubricant results in longer gear life by providing high film strength and superior low temperature performance. It also has anti-rust and anti-corrosion properties to further promote extended gear and bearing life.

- *Extended drain, all-season lubrication* – With extremely low channel point and high viscosity index, this synthetic lubricant provides excellent performance over a broad temperature range. Furthermore, Roadranger FE 75W-90 Fuel Efficient Synthetic Axle lubricant resists oxidation and will last significantly longer than conventional gear oils.
- *Reduced maintenance and downtime* – All of the foregoing advantages of this lubricant translates directly into reduced maintenance and less downtime.

### Performance Benefits of Roadranger FE 75W-90:

- *Fuel Economy*
  - Fuel Efficient – Quantifiable Fuel Savings
  - 1% plus Improvement – Industry and Fleet Testing Methods
- *Longer Axle Component Life*
  - Reduced Gear Wear
  - Less Frequent Maintenance – Less Oil Disposal
  - Increased Vehicle Uptime
  - Longer Component Life
- *Improved Protection in Extreme Conditions*
  - Severe Low and High Temperature Properties
- *Extended Drain and Extended Warranty Protection*
- *Genuine OEM Equipment*

# Synthetic Axle Lubricant

Material Safety Data Sheets for these products are provided with samples or are provided on request. Users of these products are urged to study and use this information.

## Roadranger FE 75W-90 meets or exceeds all performance requirements for:

- API GL-5, API MT-1
- MIL-PRF-2105E / SAE J 2360
- ArvinMeritor O76-N, O76-E
- DANA SHAES-256 Rev C
- International TMS 6816
- Mack GO-J Plus

CHARACTERISTIC	ROADRANGER FE 75W-90 FUEL EFFICIENT	TEST METHODS
Appearance, visual	Amber	
SAE Grade	75W-90	SAE J-300
Viscosity, cSt		ASTM D-445
100°C	15.0	
40°C	103	
Viscosity, SUS		ASTM D-2161
210°F	72	
100°F	620	
Viscosity, cP		ASTM D-2983
-40°C	90,000	
Viscosity index	152	ASTM D-2270
Pour point, °C (°F)	< 45 (< 49)	ASTM D-97
Flash point, °C (°F)	215 (420)	ASTM D-92
Foam		ASTM D-892
sequence I	pass	
sequence II	pass	
sequence III	pass	
API gravity 15.6/15.6°C	27.3	ASTM D-287
Density, g/l, 15.6°C (lbs./gal., 60°F)	891 (7.42)	ASTM D-1298
Copper strip corrosion		ASTM D-130
3 hrs. at 100°C (212°F)	1a pass	
3 hrs. at 121°C (250°F)	1a pass	

*Suggestions for the use and application of our products and guide formulations are given to the best of our knowledge and information and without obligation. Such suggestions do not release our customers from testing our products for themselves as to their suitability for the intended processes and purposes. If, however, we should be liable for damage, our liability shall be limited to damages resulting from wilful acts or gross negligence. In no event we shall be liable for indirect damages. Every user of our products is responsible as regards observation of legal regulations including patent rights.*

# Roadranger®



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