



Drive Axle Lubricant Data Sheet

Roadranger® Synthetic Gear Lubricants are API GL-5 extreme pressure lubricants designed to promote longer gear life and better operating economy thus improving fuel economy in heavy, mid and light-duty applications. They are formulated using synthetic base stock, which has a high viscosity index and an exceptionally low pour point.

Roadranger Synthetic Gear Lubricants Outperform Conventional Gear Lubricants

- Longer Axle Component Life
 - Reduces Gear Wear
 - Less Frequent Maintenance
 - Less Oil Disposal
 - Increases Vehicle Uptime
- Improves Protection In Extreme Conditions
 - Severe Low and High Temperature properties
- Extended Drain and Extended Warranty Protection
- Genuine OEM Equipment

NEW Roadranger FE 75W-90 Fuel Efficient Synthetic Gear Lubricant Benefits:

- Better operating performance – superior lubricating properties and a lower viscosity profile may improve fuel mileage.
- Meets the latest DANA Specification SHAES 256 Rev C
- Fuel Economy
 - Fuel Efficient – Quantifiable Fuel Savings
 - 1% Plus Improvement – Industry and Fleet Testing Methods

Roadranger 75W-90 Synthetic Gear Lubricant:

- For over 15 years, Roadranger 75W-90 Synthetic Gear Lubricant has remained the industry standard in extended drain heavy-duty commercial vehicle gear lubricants.
- Approved by all major axle and truck manufacturers.
- Meets the latest DANA Specification SHAES 256 Rev C
- Extended Drain and Extended Warranty Protection
- Genuine OEM Equipment

Roadranger 80W-140 Synthetic Gear Lubricant:

- Roadranger 80W-140 Synthetic Gear Lubricants is used in Off-Road vehicles or where high viscosity lubricants are required.
- Genuine OEM Equipment

Synthetic Gear Lubricants

Typical Characteristics

| | ROADRANGER® FE 75W-90 FUEL EFFICIENT SYNTHETIC GEAR LUBRICANT | ROADRANGER 75W-90 SYNTHETIC GEAR LUBRICANT | ROADRANGER 80W-140 SYNTHETIC GEAR LUBRICANT | TEST METHODS |
|---|--|---|--|---------------------|
| Part # | 2986 | 2984 | 2831 | |
| Appearance, visual | Amber | Amber | Amber | |
| SAE Grade | 75W-90 | 75W-90 | 80W-140 | SAE J-300 |
| Viscosity, cSt | | | | ASTM D-445 |
| 100°C | 15.0 | 16.6 | 30.6 | |
| 40°C | 103 | 122 | 284 | |
| Viscosity, SUS | | | | ASTM D-2161 |
| 210°F | 72 | 86 | 149 | |
| 100°F | 620 | 626 | 1470 | |
| Viscosity, cP | | | | ASTM D-2983 |
| -26°C | – | – | 75,000 | |
| -40°C | 90,000 | 125,000 | – | |
| Viscosity index | 152 | 147 | 146 | ASTM D-2270 |
| Pour point, °C (°F) | <-45 (<-48) | <-45 (<-48) | <-40 (<-40) | ASTM D-97 |
| Flash point, °C (°F) | 215 (420) | 204 (400) | 200 (395) | ASTM D-92 |
| Foam | | | | ASTM D-892 |
| sequence I | pass | pass | pass | |
| sequence II | pass | pass | pass | |
| sequence III | pass | pass | pass | |
| API gravity 15.6/15.6°C | 27.3 | 25.2 | 23.6 | ASTM D-287 |
| Density, g/l, 15.6°C (lbs./gal., 60°F) | 891 (7.42) | 891 (7.42) | 902 (7.51) | ASTM D-1298 |
| Copper strip corrosion | | | | ASTM D-130 |
| 3 hrs. at 100°C (212°F) | 1a | 1a | 1a | |
| 3 hrs. at 121°C (250°F) | 1a | 1a | 1a | |

OEM Approvals/Specifications

| | | | |
|---------------|-----------------|-----------------|-----------------|
| API | GL-5, MT-1 | GL-5, MT-1 | GL-5, MT-1 |
| MIL | MIL-PRF-2105E | MIL-PRF-2105E | MIL-PRF-2105E |
| SAE | SAE J 2360 | SAE J 2360 | SAE J 2360 |
| ArvinMeritor | 076-N, 076-E | 076-N, 076-E | 076-N, 076-E |
| DANA | SHAES-256 Rev C | SHAES-256 Rev C | SHAES-429 Rev A |
| International | TMS 6816 | TMS 6816 | TMS 6816 |
| Mack | GO-J Plus | GO-J Plus | |

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 shall we be liable for indirect damages. Every user of our products is responsible regarding observation of legal regulations including patent rights.

NOTE: 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®



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Roadranger: Eaton, Dana and other trusted partners providing the best products and services in the industry, ensuring more time on the road.