# GEAR

## GEAR OILS

GEAR OIL is recommended for use in spiral, bevel, or hypoid gear sets used in differentials, power take-off units, front/rear axles, and final drives found in on-highway vehicles and off-highway vehicles used in mining, forestry, agriculture, and construction operations. GEAR OIL provides excellent protection in wheel bearings, universal joints, planetary gear sets, steering gears, and mobile gear applications dealing with heavy loads, varying speeds, and high torque conditions. GEAR OIL products are formulated to meet the industry's most stringent specifications, including the American Petroleum Institute GL-5 and MT-1 performance specifications, and the latest OEM specifications from Ford, Mack and Eaton.

## TECHNICAL DATA SHEETS

2 | GEAR 80W-90, 85W-140

4 | GEAR SYNTHETIC 75W-90, 80W-140

6 | GEAR FE SYNTHETIC 75W-90

# GEAR

80W-90, 85W-140

## PRODUCT DESCRIPTION

GEAR Oil as an extreme pressure (EP) gear lubricant designed for continuous protection under high loads in multiple light - and heavy-duty applications. Multi-grade formulation that meets the performance requirements for drive axles, limited-slip differentials with hypoid gearing, wheel hubs, transfer cases, and gearboxes.

## PERFORMANCE FEATURES

- Premium performance in equipment under high speed/ shock loads, high speed/ low torque and low speed/ high torque conditions
- Ultimate protection for gear surfaces against wear, corrosion and contamination while preventing oil seal deterioration from occurring
- Enhanced oxidation stability that prevents deposit formation, varnish and sludge in elevated operating temperatures

## APPLICATIONS

GEAR Oil is recommended for use in spiral, bevel or hypoid gear sets used in differentials, manual transmissions, power take-off units, front/rear axles and final drives found in on-highway vehicles and off-highway vehicles used in mining, forestry, agricultural and construction operations. GEAR Oil provides excellent protection in wheel bearings, universal joints, planetary gear sets, steering gears and mobile gear applications dealing with heavy loads, varying speeds and high torque conditions.

## TECHNICAL PROPERTIES

The values listed below are typical of current production. As variations may occur, these numbers do not constitute a specification.

| PROPERTIES | TEST METHODS | SAE GRADE | |
|---|---|---|---|
| | | 80W-90 | 85W-140 |
| Kinematic Viscosity cSt @ 40°C | ASTM D445 | 154.6 | 367 |
| Kinematic Viscosity cSt @ 100°C | ASTM D445 | 15 | 26.6 |
| Viscosity Index | ASTM D2270 | 98 | 96 |
| Pour Point, °C | ASTM D97 | -30° | -24° |
| Brookfield Viscosity cP @ °C | ASTM D2983 | 80,000 @ -26° | 48,000 @ -12° |

## PERFORMANCE SPECIFICATIONS

GEAR Oil is approved and/or recommended and backed by Federated Co-operatives Limited Oil Guarantee for use in the following applications:

| INDUSTRY/OEM | SPECIFICATIONS |
|---|---|
| API | GL-5/MT-1 |
| FORD | WSP-M2C197-A (80W-90) |
| MACK | GO-J |
| MERITOR | 076-D (80W-90) |
| | 076-A (85W-140) |
| MIL | PRF-2105E/L-2105D |
| SAE | J2360* |
| ZF | ZF-TE-ML 07A/TE-ML 08 |

*Suitable for use

## SAFETY DATA SHEETS

Product-specific safety data sheets (SDS) can be obtained by contacting your local retail Co-op or Federated Co-operatives Limited (see contact information below) or by visiting business.crs.

## PRODUCT SELECTION

Product availability can vary by location. Please contact your local retail Co-op for further details.

| PRODUCT SIZES | GEAR | |
|---|---|---|
| | 80W-90 | 85W-140 |
| 946 mL Bottle | ✓ | |
| 3.785 L Jug | ✓ | ✓ |
| 18.9 L Pail | ✓ | ✓ |
| 208 L Drum | ✓ | |
| 1000 L Tote | ✓ | |

## RECYCLING OF USED LUBRICANTS AND CONTAINERS

Please protect the environment when disposing of petroleum products. All products should be taken to an authorized collection facility or picked up by a qualified organization. This ensures the products will be disposed of in an environmentally sensitive manner. For additional information on used-oil recycling programs, please see the following:

- Saskatchewan – www.usedoilrecyclingsk.com
- Alberta – www.usedoilrecyclingab.com
- British Columbia – www.interchangerecycling.com
- Manitoba – www.usedoilrecyclingmb.com

## CONTACT INFO

For more information on this or any other CO-OP® lubricant product, please contact your local retail co-operative or Federated Co-operatives Limited.

fuelteam@fcl.crs • business.crs

CO-OP® ®Registered trademarks of /Marque déposée de Federated Co-operatives Limited, Saskatoon S7K 3M9. All others are trademarks of their respective companies. Toutes les autres sont des marques de leurs sociétés.

CO-OP® PREMIUM LUBRICANTS

# GEAR SYNTHETIC

75W-90, 80W-140

## PRODUCT DESCRIPTION

GEAR SYNTHETIC Oil is an extreme pressure (EP) gear lubricant designed for differentials with hypoid gearing in multiple light - and heavy-duty applications. GEAR SYNTHETIC Oil provides extended oil drain intervals up to 250,000 miles. Formulated for drive axles, *limited-slip differentials with hypoid gearing wheel hubs, transfer cases, and gearboxes.

*Limited-slip differential conditions: Gear Synthetic 75W-90 with limited slip performance is for top off or drain and refill use only. Use OEM approved product if unit has been rebuilt or new gears have been installed.

## PERFORMANCE FEATURES

- Synthetic Performance providing exceptional cold weather operating during start-stop applications, along with improving the length and duration of equipment life
- Ultimate Protection for equipment components against metal contact, along with preventing wear, corrosion, and ensuring gear surface cleanliness that are free of sludge, varnish, and deposits.
- Robust Formula With anti-wear additives that produces a shear stable viscosity lubricant protecting against wear in severe surface and in fluctuating seasonal temperatures.

## APPLICATIONS

GEAR SYNTHETIC Oil is recommended for use in spiral, bevel or hypoid gear sets used in differentials, manual transmissions, power take-off units, front/rear axles and final drives, found in on-highway vehicles and off-highway vehicles used in mining, forestry, agricultural and construction operations. GEAR SYNTHETIC Oil provides ultimate protection in wheel bearings, universal joints, planetary gear sets, steering gears and mobile gears applications consistently operating under heavy loads, varying speeds, high torque conditions and elevated temperatures.

## TECHNICAL PROPERTIES

The values listed below are typical of current production. As variations may occur, these numbers do not constitute a specification.

| PROPERTIES | TEST METHODS | SAE GRADE | |
|---|---|---|---|
| | | 75W-90 | 80W-140 |
| Kinematic Viscosity cSt @ 40°C | ASTM D445 | 98.50 | 259.80 |
| Kinematic Viscosity cSt @ 100°C | ASTM D445 | 16.20 | 29.32 |
| Viscosity Index | ASTM D2270 | 178 | 150 |
| Pour Point, °C | ASTM D97 | -40° | -45° |
| Brookfield Viscosity cP @ °C | ASTM D2983 | 78,000 @ -40° | 42,000 @ -26° |
| Specific Gravity @ 15.6°C | ASTM D1298 | 0.8544 | 0.8735 |

## PERFORMANCE SPECIFICATIONS

GEAR SYNTHETIC is approved and/or recommended and backed by Federated Co-operatives Limited Oil Guarantee for use in the following applications:

| INDUSTRY/OEM | SPECIFICATIONS |
|---|---|
| API | GL-5 / MT-1 |
| DANA | SHAES 256-Rev E (75W-90)* |
| DETROIT | DFS93K219.01 (75W-90)* |
| MACK | GO-J PLUS (75W-90) |
| | GO-J (80W-140) |
| MAN | 342 TYPE S1 |
| MERITOR | O-76N (75W-90) |
| | 0-76R (80W-140) |
| MIL | PRF-2105E/L-2105D |
| NAVISTAR | 6816 (80W-140) |
| SAE | J2360* |
| ZF | TE-ML07A / TE-ML08 (80W-140) |

*Suitable for use

## SAFETY DATA SHEETS

Product-specific safety data sheets (SDS) can be obtained by contacting your local retail Co-op or Federated Co-operatives Limited (see contact information below) or by visiting business.crs.

## PRODUCT SELECTION

Product availability can vary by location. Please contact your local retail Co-op for further details.

| PRODUCT SIZES | SAE GRADE | |
|---|---|---|
| | 75W-90 | 80W-140 |
| 3.785 L Jug | ✓ | |
| 18.9 L Pail | ✓ | ✓ |
| 208 L Drum | ✓ | |
| 1000 L Tote | ✓ | |

## RECYCLING OF USED LUBRICANTS AND CONTAINERS

Please protect the environment when disposing of petroleum products. All products should be taken to an authorized collection facility or picked up by a qualified organization. This ensures the products will be disposed of in an environmentally sensitive manner. For additional information on used-oil recycling programs, please see the following:

- Saskatchewan – www.usedoilrecyclingsk.com
- Alberta – www.usedoilrecyclingab.com
- British Columbia – www.interchangerecycling.com
- Manitoba – www.usedoilrecyclingmb.com

## CONTACT INFO

For more information on this or any other CO-OP® lubricant product, please contact your local retail co-operative or Federated Co-operatives Limited.

fuelteam@fcl.crs • business.crs

CO-OP® ®Registered trademarks of /Marque déposée de Federated Co-operatives Limited, Saskatoon S7K 3M9. All others are trademarks of their respective companies. Toutes les autres sont des marques de leurs sociétés.

CO-OP® PREMIUM LUBRICANTS

# GEAR FUEL EFFICIENT SYNTHETIC

75W-90

## PRODUCT DESCRIPTION

GEAR FUEL EFFICIENT SYNTHETIC Oil is an extreme pressure (EP) gear lubricant designed for multiple light- and heavy-duty uses, where improved fuel economy is desired. GEAR FUEL EFFICIENT SYNTHETIC Oil is an Eaton recommended lubricant backed by Roadranger support. The multi-grade formulation that meets performance requirements for drive axles, limited slip differentials, along with wheel hubs, transfer cases and gear boxes.

## PERFORMANCE FEATURES

- Exclusive performance with improved fuel efficiency
- Reduced maintenance with extended oil drain intervals up to 500,000 miles, while maintaining warranty coverage, leading to longer equipment life
- Superior protection for gears and bearings
- Excellent corrosion resistance and seal material compatibility
- All-season lubricant, recommended for extreme hot and cold temperatures
- High viscosity index maintains a strong film thickness throughout a wide temperature range

## APPLICATIONS

GEAR FUEL EFFICIENT SYNTHETIC Oil is recommended for use in spiral, bevel or hypoid gear sets used in differentials, manual transmissions, power take-off units, front/rear axles and final drives, where fuel economy is desirable in heavy equipment found in on-highway vehicles and off-highway vehicles used in mining, forestry, agricultural and construction operations. GEAR FUEL EFFICIENT SYNTHETIC Oil provides improved fuel economy and superior protection in wheel bearings, universal joints, planetary gear sets, steering gears and mobile gears applications frequently exposed to extreme service conditions under heavy loads, varying speeds, high torque conditions and elevated temperatures.

## TECHNICAL PROPERTIES

The values listed below are typical of current production. As variations may occur, these numbers do not constitute a specification.

| PROPERTIES | TEST METHODS | SAE GRADE 75W-90 |
|---|---|---|
| Kinematic Viscosity cSt @ 40°C | ASTM D445 | 111.7 |
| Kinematic Viscosity cSt @ 100°C | ASTM D445 | 15 |
| Viscosity Index | ASTM D2270 | 140 |
| Pour Point, °C | ASTM D97 | -48° |
| Flash Point, °F | ASTM D92 | 202° |
| Brookfield Viscosity cP @ °C | ASTM D2983 | 70,000, @ -40° |
| Density at 15°C, g/ml | ASTM D1298 | 0.8830 |
| Copper Strip, Corrosion, 121°C, 3 hrs. | ASTM D130 | 1a |

## PERFORMANCE SPECIFICATIONS

GEAR FUEL EFFICIENT SYNTHETIC Oil is approved and/or recommended and backed by Federated Co-operatives Limited Oil Guarantee for use in the following applications:

| INDUSTRY/OEM | SPECIFICATIONS |
|---|---|
| API | GL-5 / MT-1 |
| DANA | SHAES 256-Rev E/SHAES 429 |
| DETROIT | DFS93K219.01 |
| EATON | ROADRANGER |
| MACK | GO- J PLUS |
| MERITOR | O-76E Extended Drain |
| MIL | PRF-2105E |
| NAVISTAR | MPAPS B-6821 |
| SAE | J2360 |

EATON
Eaton Recommended Lubricant

BACKED BY
Roadranger
SUPPORT

## SAFETY DATA SHEETS

Product-specific safety data sheets (SDS) can be obtained by contacting your local retail Co-op or Federated Co-operatives Limited (see contact information below) or by visiting business.crs.

## PRODUCT SELECTION

Product availability can vary by location. Please contact your local retail Co-op for further details.

| PRODUCT SIZES | GEAR FUEL EFFICIENT SYNTHETIC |
|---|---|
| | 75W-90 |
| 3.785 L Jug | ✓ |
| 18.9 L Pail | ✓ |
| 208 L Drum | ✓ |
| 1000 L Tote | ✓ |

## RECYCLING OF USED LUBRICANTS AND CONTAINERS

Please protect the environment when disposing of petroleum products. All products should be taken to an authorized collection facility or picked up by a qualified organization. This ensures the products will be disposed of in an environmentally sensitive manner. For additional information on used-oil recycling programs, please see the following:

- Saskatchewan – www.usedoilrecyclingsk.com
- Alberta – www.usedoilrecyclingab.com
- British Columbia – www.interchangerecycling.com
- Manitoba – www.usedoilrecyclingmb.com

## CONTACT INFO

For more information on this or any other CO-OP® lubricant product, please contact your local retail co-operative or Federated Co-operatives Limited.

fuelteam@fcl.crs • business.crs

CO-OP® ®Registered trademarks of /Marque déposée de Federated Co-operatives Limited, Saskatoon S7K 3M9. All others are trademarks of their respective companies. Toutes les autres sont des marques de leurs sociétés.

CO-OP® PREMIUM LUBRICANTS