



**PREMIUM
LUBRICANTS**

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

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GEAR

80W-90, 85W-140

PRODUCT DESCRIPTION

GEAR Oil is an extreme pressure (EP) gear lubricant designed to provide excellent protection under high loads in multiple light- and heavy-duty applications. GEAR Oil is a multi-grade formulation that meets the performance requirements for drive axles, limited slip differentials, along with wheel hubs, transfer cases and gear boxes.

PERFORMANCE FEATURES

- Non-foaming formulation provides continuous protection to gear surfaces
- Advanced inhibitor package protects metal components from wear and corrosion, along with prevention against contamination and rust
- Extreme pressure additives shield gears under varying speeds, loads and/or torque conditions
- Enhanced oxidative stability that resists deposit formation, varnish and sludge in elevated operating temperatures
- Formulated to protect against thermal degradation and oil seal deterioration
- Extend gear life with reduced down time resulting in lower maintenance costs

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	133.80	337.70
Kinematic Viscosity cSt @ 100°C	ASTM D445	14.25	26.90
Viscosity Index	ASTM D2270	105	106
Pour Point, °C	ASTM D97	-30°	-24°
Brookfield Viscosity cP @ °C	ASTM D2983	90,000 @ -26°	150,000 @ -12°

PERFORMANCE SPECIFICATIONS

GEAR Oil is approved and/or recommended and backed by Federated Co-operatives Limited 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 www.fuel.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
1 L Bottle	✓	
5 L Bottle	✓	✓
20 L Pail	✓	✓
205 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.bcusedoil.com
- Manitoba – www.usedoilrecycling.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.

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GEAR SYNTHETIC

75W-90, 80W-140

PRODUCT DESCRIPTION

GEAR SYNTHETIC Oil is an extreme pressure (EP) gear lubricant designed to provide excellent protection to equipment components in various light- and heavy-duty scenarios. GEAR SYNTHETIC Oil is a multi-grade formulation that meets the performance requirements for drive axles, limited slip differentials, along with wheel hubs, transfer cases and gear boxes.

PERFORMANCE FEATURES

- Synthetic formula offers exceptional year-round performance
- Excellent cold weather operation, specifically during start-stop applications
- Maximize the length and duration of equipment life
- Reduced maintenance costs with extended oil drain intervals up to 250,000 miles
- Protection for gears against metal contact preventing wear and corrosion from occurring
- Gear surface cleanliness that is free of sludge, varnish, or deposits
- Shear stable viscosity prevents lubricant breakdown at high temperatures and provides peak performance in cold 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 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)
	O-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

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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
5 L Bottle	✓	
20 L Pail	✓	✓
205 L Drum	✓	
1000 L Tote	✓	

RECYCLING OF USED LUBRICANTS AND CONTAINERS

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- Saskatchewan – www.usedoilrecyclingsk.com
- Alberta – www.usedoilrecyclingab.com
- British Columbia – www.bcusedoil.com
- Manitoba – www.usedoilrecycling.com

CONTACT INFO

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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.

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.

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

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	98.70
Kinematic Viscosity cSt @ 100°C	ASTM D445	14.70
Viscosity Index	ASTM D2270	156
Pour Point, °C	ASTM D97	-51°
Flash Point, °F	ASTM D92	210°
Brookfield Viscosity cP @ °C	ASTM D2983	65,400, @ -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 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-76N Extended Drain
MIL	PRF-2105E
NAVISTAR	MPAPS B-6821
SAE	J2360



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 www.fuel.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
5 L Bottle	✓
20 L Pail	✓
205 L Drum	✓
1000 L Tote	✓

RECYCLING OF USED LUBRICANTS AND CONTAINERS

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