



# AGRICULTURE

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## LUBRICATION GUIDE





# HISTORY

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## Bel-Ray®

For over 75 years, Bel-Ray products have proven their value, setting the highest standards of quality and performance. A leader in lubrication technology, our products have been engineered to protect while delivering superior business value for applications in aerospace, automotive, energy, food, marine, military, mining, motorcycle, OEM, powersports, steel and textile and other industries served by our Marine, Powersports, Industrial and Mining Divisions.

## Calumet

Calumet manufactures, formulates, and markets a diversified slate of specialty branded products and renewable fuels to customers across a broad range of consumer-facing and industrial markets. Calumet is headquartered in Indianapolis, Indiana and operates 12 specialty product manufacturing and production facilities throughout North America.

Calumet acquired Bel-Ray in December of 2013.



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# ENGINE OILS

## HD FLEET ENGINE OIL

Bel-Ray® HD Fleet Engine Oil is a premium, heavy-duty engine oil formulated with select base oils and a robust additive system that includes dispersants, detergents, oxidation and corrosion inhibitors, and anti-wear and antifoam agents. These characteristics provide optimum engine cleanliness and reduce port plugging, long lasting soot control, and superior wear protection for critical engine components.

- Superior wear protection for critical engine components
- Added resistance to varnish piston deposits and sludge formation
- Excellent rust and bearing corrosion protection

SAE 30
Drum: 302263150007
Bulk: 302263150000

## HEAVY DUTY DIESEL ENGINE OIL

Bel-Ray Heavy Duty Diesel Engine Oil is a high performance motor oil for heavy-duty diesel and gasoline engines. It is formulated to meet or exceed the performance requirements of many of today's off-highway engines. The Extreme Pressure capabilities of Heavy Duty Diesel Engine Oil reduce wear significantly extending the life of rings, liners and main bearings. It provides superior soot handling and acid neutralization capabilities making it suitable for modern diesel engines fitted with EGR systems or in areas of the world where fuel sulfur levels vary significantly. Heavy Duty Diesel Engine Oil will extend drain intervals and component life significantly reducing engine oil related costs.

- Neutralizes the acids formed during combustion allowing for extended drain intervals
- Extremely shear stable. Does not lose viscosity during normal operation
- Reduce deposit formation. Improved soot handling characteristics, necessary in modern EGR equipped engines

SAE 15W-40
Drum: 301054150007

## HYPERION™ ELITE SYNTHETIC CK-4/SN MOTOR OIL

Bel-Ray® Hyperion Elite Synthetic CK-4/SN 5W-40 is formulated for use in high-speed four-stroke cycle diesel engines designed to meet 2017 model year on-highway and Tier 4 non-road exhaust emission standards as well as for previous model year diesel engines. This oil is formulated to use in all applications with diesel fuels ranging in sulfur content up to 500 ppm. Bel-Ray Hyperion Elite Synthetic CK-4/SN 5W-40 is designed to provide enhanced protection against oil oxidation, viscosity loss due to shear, and oil aeration as well as protection against catalyst poisoning, particulate filter blocking, engine wear, piston deposits, degradation of low- and high-temperature properties, and soot-related viscosity increase.

- Protects emission control systems
- Outstanding oxidation stability
- Full Synthetic formulation
- Universal product for mixed fleet operations
- Excellent low temperature properties helps speed cold starts

SAE 5W-40
Drum: 302189150007
Bulk: 302189150000

## HYPERION SYNTHETIC BLEND CK-4 MOTOR OIL

Bel-Ray Hyperion Synthetic Blend CK-4 is formulated for use in high-speed four-stroke cycle diesel engines designed to meet 2017 model year on-highway and Tier 4 non-road exhaust emission standards as well as for previous model year diesel engines. This oil is formulated to use in all applications with diesel fuels ranging in sulfur content up to 500 ppm. Bel-Ray Hyperion Synthetic Blend CK-4 is designed to provide enhanced protection against oil oxidation, viscosity loss due to shear, and oil aeration as well as protection against catalyst poisoning, particulate filter blocking, engine wear, piston deposits, degradation of low- and high-temperature properties, and soot-related viscosity increase. SAE 15W-40 meets API SN specifications.

- Protects emission control systems
- Outstanding oxidation stability
- Synthetic blend formulation
- Universal product for mixed fleet operations
- Excellent low temperature properties helps speed cold starts

SAE 10W-30	SAE 15W-40 API SN
Drum: 302559150007	Gallon: 302334150195
Bulk: 302559150000	Drum: 302334150007
---	Tote: 302334150316
---	Bulk: 302334150000



# TRACTOR FLUID

# GEAR OILS

## PREMIUM UNIVERSAL TRACTOR FLUID

Bel-Ray® Premium Universal Tractor Fluid is a high quality, specially designed lubricant containing anti-rust, anti-foam and oxidation inhibitors, plus other additives necessary for the wide range of applications recommended by various tractor manufacturers. The product is an all-season type of oil that resists thickening in cold weather and thinning in the heat of the summer. It is manufactured with detergents to keep transmissions clean and maintain hydraulic control circuit in perfect working condition, and provides excellent protection against seal and pump deterioration. Operators will appreciate the multipurpose application of Bel-Ray Premium Universal Tractor Fluid for transmissions, final drives, and hydraulic systems of tractors.

- Excellent gear, bearing and pump wear protection
- Multi-functional fluid
- Oxidation and thermal stability for long life
- Excellent rust and corrosion protection
- Reduces brake chatter
- Compatibility with oil seal materials used in transmission and hydraulic systems

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Pail: 302224150017
Bulk: 302224150000

## SYNTHETIC GL-5 GEAR OIL

Bel-Ray® Synthetic GL-5 Gear Oil is designed to provide superb performance for automobiles, light and heavy duty trucks and various industrial equipment when API Service Classification GL-5 and/or MT-1 is specified. This product is formulated with synthetic base stocks that have outstanding thermal oxidation stability. The additive system provides extreme pressure characteristics, anti-wear performance, rust and corrosion prevention and anti-foaming tendencies. Bel-Ray Synthetic GL-5 Gear Oil is available in SAE grades 75W-90 and 75W-140, and exceeds performance requirements as defined by API classifications GL-5 and MT-1.

- Outstanding low-temperature shifting performance
- Maximum resistance to oxidation, sludge and varnish formation
- Protection against gear rust and corrosion
- Optimum fuel economy
- Superior wear protection for critical gear components
- Smooth shifting operation

SAE 75W-90	SAE 75W-140
Pail: 302242150019	Pail: 302243150019
Bulk: 302242150000	---

## GL-5 GEAR OIL

Bel-Ray GL-5 Gear Oil is designed to provide superb performance for automobiles, light and heavy duty trucks and various pieces of industrial equipment when API Service Classification GL-5 and MT-1 are specified. This product is created with quality base stocks that have outstanding thermal oxidation stability. The additive system provides extreme pressure characteristics, anti-wear performance, rust and corrosion prevention and anti-foaming tendencies. Bel-Ray GL-5 Gear Oil is available in SAE grades 80W-90 and 85W-140, and exceeds performance requirements as defined by API classifications GL-5 and MT-1.

- Outstanding low-temperature shifting performance
- Maximum resistance to oxidation, sludge and varnish formation
- Protection against gear rust and corrosion
- Optimum fuel economy
- Superior wear protection for critical gear components
- Smooth shifting operation

SAE 80W-90	SAE 85W-140
Quart: 302241150125	Quart: 302230150125
Pail: 302241150019	Pail: 302230150019
Keg: 302241150012	Keg: 302230150012
Drum: 302241150003	Drum: 302230150003
Bulk: 302241150000	Bulk: 302230150000

PREMIUM UNIVERSAL  
TRACTOR FLUID

HEAVY DUTY DIESEL  
ENGINE OIL

SYNTHETIC GL-5  
GEAR OIL



TERMALENE® EXTREME PRESSURE GREASE LC

Termalene Extreme Pressure Grease LC is a severe duty lithium complex grease recommended for general lubrication service in both mining and industrial applications. Termalene Extreme Pressure Grease LC will replace most conventional and specialized products. Its low oil separation and good pumpability make it ideal for use in centralized lubrication systems and its Extreme Pressure protection and mechanical stability make it ideal for use in high load, high shear applications. Termalene Extreme Pressure Grease LC’s water resistance and resistance to oxidation increases grease and bearing life.

Applications: Typical industrial and mobile equipment applications are anti-friction bearings, low and high speed journal bearings, general machinery lubrication, all chassis points including ball and universal joints, wheel bearings, king pins, fifth wheels and other severe duty applications.

- Provides excellent mechanical stability for superior bearing retention resulting in potential reduced grease consumption
- Reduces friction and wear promoting extended component life
- Excellent resistance to water washout. Provides protection in the wettest environments

NLGI 1
Keg: 301087150014

TERMALENE MULTIPURPOSE EXTREME PRESSURE GREASE

Termalene Multipurpose Extreme Pressure Grease, commonly known as Termalene EP Grease, is a severe duty, impact resistant, aluminum complex grease recommended for general lubrication service in both mining and industrial applications. Termalene Multipurpose Extreme Pressure Grease will replace most conventional and specialized products. Its low oil separation and good pumpability make it ideal for use in centralized lubrication systems and its Extreme Pressure protection and mechanical stability make it ideal for use in high load, high shear applications. Termalene Multipurpose Extreme Pressure Grease’s water resistance and resistance to oxidation increase grease and bearing life.

Applications: Typical industrial and mobile equipment applications are anti-friction bearings, low and high speed journal bearings, general machinery lubrication, all chassis points including ball and universal joints, wheel bearings, king pins, fifth wheels and other severe duty applications.

- Maintain consistency in high shear conditions. Extends lubrication frequencies
- Impact resistance. Superior retention properties
- Excellent lubrication in the presence of water. Superior retention properties and protection against rust. Extends bearing life

NLGI 1	NLGI 2
Lined Drum: 301765150004	Lined Drum: 301091150004
	Cartridge: 301091150230

MOLYLUBE® LOW TEMPERATURE MULTIPURPOSE GREASE

Molylube Low Temperature Multipurpose Grease, commonly known as Molylube 8626 EP Grease, is a mineral oil based, aluminum complex grease. It is an all-season grease fortified with Extreme Pressure and anti-wear additives, molybdenum disulfide, or moly, graphite lubricating solids, and rust and corrosion inhibitors.

Applications: Heavily loaded anti-friction bearings and journal bearings. As a single grade, all-season, multipurpose grease in automatic lubricating systems without heat tracing, whether in arctic regions or areas with very diverse climates. Mobile equipment - general lubrication of chassis points, king pins, fifth wheels. General industrial lubrication of anti-friction bearings as well as journal bearings found at most manufacturing or process facilities.

- Broad service temperature application range for year-round one grade service. Reduces product inventories
- Maximizes component useful life helping to reduce replacement part costs and lost production time

NLGI 1
Lined Drum: 301042150004
Fluid Bag: 301042150526

MOLYLUBE HIGH TEMPERATURE GREASE

Molylube High Temperature Grease, commonly known as Molylube 65 Grease, is a synthetic based, sodium complex grease recommended for high temperature and heavy load applications. It is formulated with molybdenum disulfide, or moly, graphite lubricating solids, Extreme Pressure and anti-wear additives, and rust and corrosion inhibitors for maximum protection under severe operating conditions. The sodium complex thickener and synthetic base fluids of Molylube High Temperature Grease is virtually residue-free, ensuring that there will be no high temperature residues from either the thickener or fluids.

- High dropping point. High temperature residue-free
- Long life capability
- Reduces friction and provides high temperature lubrication
- Maximizes component useful life helping to reduce replacement part costs and lost production time

NLGI 1
Cartridge: 301184150230

MOLYLUBE 5% MOLY EXTREME PRESSURE GREASE LC

Molylube 5% Moly Extreme Pressure Grease LC is a lithium complex grease fortified with exceptional Extreme Pressure properties and 5% moly as required by many off-highway equipment manufacturers. The inherent properties of the lithium complex thickener and the proprietary chemical system utilized in Molylube 5% Moly Extreme Pressure Grease LC yield a grease with exceptional mechanical and thermal stability, excellent anti-wear and Extreme Pressure properties, unsurpassed rust and corrosion protection and resistance to water washout.

Applications: Manual or automatic lubrication of rolling stock chassis, articulated joints and run-of-the-mine vehicles. Process machinery and general plant lubrication, low to medium speed anti-friction bearings, plain bearings.

- Maximizes bearing retention in wet environments
- Eliminates rust and corrosion damage to bearings operating in harsh environments
- Maximizes component useful life helping to reduce replacement part costs and lost production time
- “Moly” powder at an effective level recommended by many off-highway equipment OEMs

NLGI 1	NLGI 2
Fluid Bag: 301612150526	Fluid Bag: 301083150526





# HYDRAULIC OILS

## PREMIUM AW HYDRAULIC FLUID

Bel-Ray Premium AW Hydraulic Fluid is a special hydraulic fluid formulated from highly-refined base stocks and an advanced additive system to deliver ultimate equipment protection with extended service intervals. Bel-Ray Premium AW Hydraulic Fluid delivers optimum fluid performance over a wide-range of operating temperatures and conditions. It also exhibits excellent demulsification (water separation) properties, even at high operating temperatures and operating pressures.

- Ultimate wear protection for critical system components
- Ultimate resistance to rust and oxidation
- Maximum protection and peak performance under heavy-loads
- Excellent water separating properties
- Smooth hydraulic operation through rapid air release
- Extended equipment service intervals

ISO 32	ISO 46	ISO 68
Pail: 302123150017	Pail: 302124150017	Pail: 302125150017
Drum: 302123150007	Drum: 302124150007	Drum: 302125150007
Tote: 302123150316	Tote: 302124150316	Tote: 302125150316
Bulk: 302123150000	Bulk: 302124150000	Bulk: 302125150000

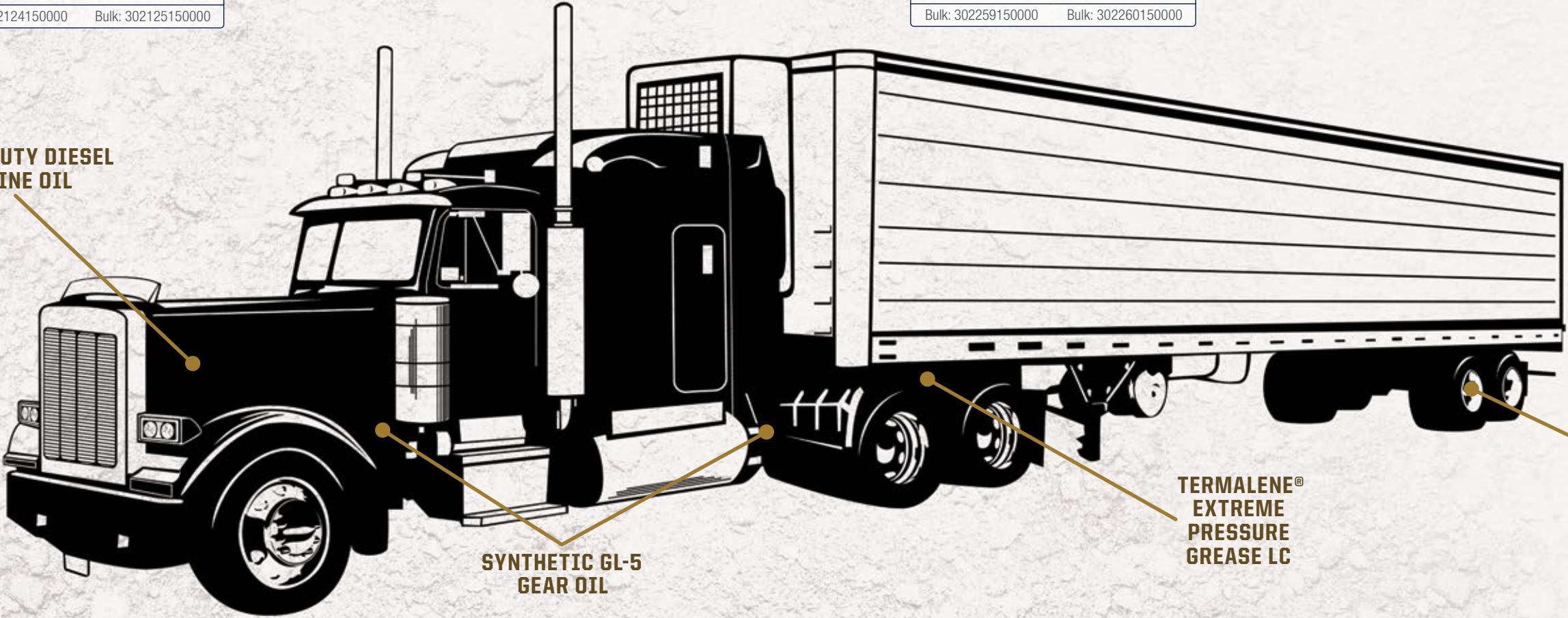
## CLEAR BLUE ASHLESS AW HYDRAULIC OIL

Clear Blue Ashless AW Hydraulic Oils are special hydraulic fluids formulated from highly-refined base stocks and proprietary zinc-free additive technology to offer ultimate protection of operating equipment and the environment. The zinc-free (ashless, no ZDDP in composition) additive formulation was developed for service applications within environmentally sensitive areas such as parks, bodies of water, recreational areas, amusement parks, ski resorts, in-ground lifts and equipment operating in populated areas. Clear Blue Ashless AW Hydraulic Oils are non-toxic to sea life and non-hazardous to surrounding inhabitants in case of an accidental leak, release or spill. Bel-Ray Clear Blue Ashless AW Hydraulic Oil exceeds ASTM D5864 standards for classification as Inherently Biodegradable. It also meets requirements for U.S. EPA 40 CFR Static Sheen Test (water sheen or slick) in ambient seawater and EPA LC50 Saltwater Test (Shrimp Kill).

- Dyed BLUE to differentiate from non environmentally friendly fluids
- Provides optimum service life through 6,000+ hour oxidation stability performance (ASTM D-943)
- Offers superior performance when compared to vegetable based fluids
- Very cost-effective when compared to synthetic based environmental fluids
- Fully compatible with hydraulic oils that contain zinc; however mixing will mitigate environmental benefits

ISO 46	ISO 68
Drum: 302259150007	Drum: 302260150007
Tote: 302259150316	Tote: 302260150316
Bulk: 302259150000	Bulk: 302260150000

HEAVY DUTY DIESEL  
ENGINE OIL



SYNTHETIC GL-5  
GEAR OIL

TERMALENE®  
EXTREME  
PRESSURE  
GREASE LC

SYNTHETIC GL-5  
GEAR OIL



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