ANDROIL™, M/M
Food-Grade Machinery Oil

Multi-Mist™ Androil is a colorless, odorless, non-staining general purpose lubricant for food industry applications. It quickly penetrates into chains, cables, and other hard to reach places and provides excellent lubricity. It also contains anti-wear and corrosion inhibitors to extend the life of chains and cables and helps reduce downtime, protect, and extend the life of costly equipment. Androil has a wide temperature range from -20°F to 325°F intermittently.

APPLICATIONS: Great for line chains such as monorail, main, and final, fillers, corn-cutting heads, salt dispensing valves, air-atomizing valves on tumble filters, cutting equipment, food service carts, food racks, and anywhere a food-contact H1 oil must be used.

BREAK-AWAY™
High-Temperature, Anti-Seize Lubricant

Break-Away aerosol or brush top allows for easy disassembly of parts by preventing seizure, corrosion, pitting, rusting, and galling of metal parts. Acts as a sealant by reducing friction and making tighter joints possible. Resists water washout, salt spray, steam, and weathering. Works under extreme pressure up to 3,000 psi without squeeze out. Maintains proper consistency and will not harden, melt, or evaporate. Provides superior lubrication and sealing up to 2,200°F.

APPLICATIONS: Recommended for use on hanger bolts, heat exchangers, industrial regulators, pneumatic hammers, thread bolts, filter presses, nuts and bolts, valve steam guides, king pin bushings, battery terminals, boiler fittings, glide rails, pipe threads, molds, dies, and stay bolts.

BREAK-AWAY™ PLUS
Non-Staining Anti-Seize Lubricant

Break-Away Plus aerosol or brush top is a non-staining, non-metallic, mineral-based formula that allows for easy disassembly of parts by preventing seizure, corrosion, pitting, rusting, and galling of metal parts. Acts as a sealant by reducing friction and making tighter joints possible. Resists water washout, salt spray, steam, and weathering. Works under extreme pressures up to 3,000 psi without squeeze out. Maintains proper consistency and will not harden, melt, or evaporate. Provides superior lubrication and sealing up to 2,300°F. Meets USDA H1 requirements.

APPLICATIONS: Recommended for use on gaskets, glide plates, press assembly, shutoff valves, boiler fittings, fusing equipment, bolts, nuts, studs, fuel pump threads, king pin bushings, oil pan gaskets, battery terminals, pneumatic hammers, hydraulic fittings, glide rails, pipe threads, molds, dies, stay bolts, grills, broilers, valve stems, pipe fittings, torque rod headers, and anchor pins.

CC-93™
Moly Chain and Cable Lubricant

CC-93 aerosol penetrates to cores of cables and linkage pins of chains to provide extra protection at critical wear and stress points where fatigue begins. Lubricates with Moly to reduce friction and wear. Sets to a smooth film that does not harden and protects against dirt, dust and water wash-out. Provides continuous lubrication for smoother action and longer life. Resists dripping—will not sling off. Unaffected by severe temperature changes. Helps protect against rust and corrosion.

APPLICATIONS: Recommended for lubricating and protecting chains and cables on mining and quarry equipment, steam shovels, cranes, draglines, earth-moving and trenching equipment, loading equipment on trains, trucks, and ships, forklifts, conveyors, fishing net cables, ready-mix concrete trucks, and drilling rigs.
CC-93™ CLEAR

Clear Penetrating Chain and Cable Lubricant

CC-93 Clear aerosol will lubricate and protect sisal cord, jute, hemp-cored, wire cored, and chain links. It consists of corrosion inhibitors, penetrating agents, viscosity control agents, anti wear additives, extreme pressure additives and has a clear color for easy inspection. The product does not contain any asphalt, heavy metals, or chlorinated solvents. Contains a resin to promote tackiness.

APPLICATIONS: Designed to penetrate into the core of wire, hemp, sisal, and jute-type cable; as well as, the ability to float freely into chain links except on ladder chains with internal pistons. It lubricates and reduces oxidation.

CHAINMASTER™, M/M

Extreme Temperature Chain and Cable Oil

Multi-Mist™ Chainmaster gives longer chain life and operation. It won’t sling off at high speeds or drip at low speeds, penetrates deep to the core, and lubricates to reduce friction and wear. Quick, easy application — no heating. It has a wide temperature range effective from -30°F up to 530°F continuous and intermittently up to 580°F with monitored re-lubrication. Available in both aerosol and bulk.

APPLICATIONS: Recommended for furnace drive chains and cables, cranes, draglines, forklifts, conveyors, drilling rigs, derricks, dredges, power shovels, wire rope, etc.

DRI-GARD™ PLUS

Moly Dry Film Lube

Dri-Gard Plus aerosol is a long lasting, dry molybdenum disulfide lubricant that withstands heavy loads and pressures. Provides excellent lubrication under high pressure and high heat. Dri-Gard Plus seals out moisture to prevent rust and corrosion and dries to a non-tacky finish to resist dust and abrasive particles. For all metal surfaces and actually plates itself to a clean metal surface. The dry film is nonconductive and contains no silicone or graphite.

APPLICATIONS: Recommended for use on metal surfaces where a thin, dry film of lubrication is required, including cams, tracks, lathes, drill presses, conveyors, pulleys and reels, pressed fittings, guides and slides, slider bearings, forklift slides, gears and chains, electric hoists, and mower decks. Can also be sprayed on bearings, journals, or joints prior to lubricating.

ELECTRA-SEAL® PLUS

Moisture Displacer

Electra-Seal Plus aerosol is a moisture displacing and corrosion inhibiting compound for electrical equipment. Contains a solvent, which displaces moisture as it is sprayed on. Within one minute the solvent evaporates leaving a thin continuous film which lubricates, protects against rust and corrosion, and displaces moisture.

APPLICATIONS: Recommended for use on de-energized electrical equipment such as motors, windings, generators, transformers, relays, switches, etc. Never use on sensitive electronic components such as computers, televisions, radios, printed circuit boards, or on other similar electronic equipment.

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Always consult complete label directions for proper use, warnings, and recommended applications
ELITE™ RED
Multi-Purpose, Heavy-Load, Extreme-Pressure, High-Temp Grease

Elite Red aerosol is a multi-purpose, aluminum-complex red grease developed to provide superior, long-life lubrication for extreme pressures, heavy loads, high temperatures, and wet conditions. It has exceptional heat reversion capabilities and stays in place to prevent wear even under heavy loads. Elite Red aerosol reduces friction and abrasive wear caused by dirt and dust, is rust and corrosion resistant, and will not emulsify or wash out.

APPLICATIONS: Recommended for use in automotive applications, heavy industrial equipment, open gears, conveyors, blowers, fans, pumps, wheel bearings, turbine pumps, construction equipment, journal shafts, sleeve bearings, and shafts.

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ELITE™ FG
Heavy-Duty, Aluminum-Complex White Food-Grade Grease

Elite FG aerosol is an aluminum-complex white food-grade grease that provides excellent heat reversion capabilities while it continues to lubricate under extreme pressure. Stays in place to prevent wear even under heavy loads and contains anti-wear and friction reducer additives. Superior water resistance and rust and corrosion protection. Meets USDA H1 requirements. Will not char, turn waxy, or gummy.

APPLICATIONS: Recommended for use on conveyors, pulleys and reels, machine way, pressed fittings, guides, slide bearings, gears, slides, connecting rods, hoists, dies, chains, cams, presses, and tracks.

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GEL-GUARD™
Penetrating, Heavy-Duty Lubricant and Protectant

Gel-Guard aerosol sprays on like a liquid to penetrate, then sets like a grease. Clings to overhead and vertical surfaces and contains tackifiers to prevent dripping and wash off. Lubricates with PTFE* for extreme pressure protection. Repels water and prevents rust and corrosion. Gel-Guard is used for a clear, colorless, odorless, and non-staining application. Excellent for use in sealed bearings.

APPLICATIONS: Recommended for use on doors, drilling, hinges, lifters, sprockets, rocker arms, slides, chains, pistons, boilers, oil pumps, timing chains, nuts and bolts, tapping, cams, guideways, cables, rollers, conveyors, locks, and windows.

*Polytetrafluoroethylene

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GG-10™
Open-Gear Moly Lubricant

GG-10 aerosol is a super tacky formula that provides a strong adhesive film immediately upon application to eliminate bare spots on gears.

APPLICATIONS: Recommended for open gears, drilling rigs, sweepers, bevel gears, kilns, spur gears, presses, trunnions, winches, crushers, ball mills, cutting bars, block cams, pinion gears, drag lines, power sheaves, asphalt rollers, edger roll gears, slipper shoes, girth gears, slag cars, etc.
**NOTCH™**

**Extreme Pressure Cutting and Tapping Fluid**

Notch aerosol is an all in one formula that combines cooling action with lubrication to provide superior performance on even the most difficult operations and hardest metals. Ensures cleaner, smoother cuts and extends tool life by reducing heat at its source. Forms a protective barrier to prevent chemical wear on expensive machine tools, work pieces, tables, and ways.

**APPLICATIONS:** Examples include drill presses, pipe threaders, tapping, plumbing, industrial maintenance shops, precision tools, and die making.

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**KICKOFF™, L/S**

**Starting Fluid for Diesel and Gasoline Engines**

Lubra Systems™ Kickoff aerosol provides faster, smoother starts in all sizes of diesel and gasoline engines without excessive detonation. Contains an upper cylinder lube that minimizes upper wall scoring and piston ring breakage. Helps reduce wear on engine starter and ignition systems. Increases battery and electrical system life and requires less fuel for starting. Helps prevent corrosion and is effective in humid conditions as well as down to -65°F.

**APPLICATIONS:** Stationary and mobile gasoline and diesel engines.

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**MISTOIL™, M/M**

**High-Quality, Specialized Lubricant**

Multi-Mist™ Mistoil aerosol is a specialized lubricant that allows moving parts to work easier and more smoothly. Penetrates into close tolerances to lubricate fine parts and mechanisms. Protects metal surfaces against rust and wear. Provides a long-lasting non-drying cushion of lubrication and protection. Leaves lubrication film that shields against dirt, dust, and lint.

**APPLICATIONS:** Recommended for use on gauges, appliances, gears, vending equipment, hinges, printing equipment, instruments, laundry equipment, mechanisms, office equipment, nuts and bolts, latches, sliding surfaces, and timers.

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**PENTRON™**

**Multi-Purpose, Heavy-Duty Penetrant and Release Agent**

Pentron aerosol is the easy way to loosen parts, protect them from rust, and lubricate for reuse. Works immediately to penetrate rust in close tolerance areas, grease build-up, corrosion, and scale for easy release. Pentron protects with a film of Moly lubrication.

**APPLICATIONS:** Recommended for use on nuts and bolts, frozen battery terminals, brake cables, rusted rims, mufflers, clocks and watches, air driven tools, jammed locks, removing taps, gauges and pipes, storing dies, rusty arbors, shackles, tachometer cables, starters, and tail pipes.
ZZAP™ PLUS
Penetrant and Release Agent

ZZAP Plus aerosol is ideal for welding areas, boiler rooms, and around running machinery. Reduces staining and breakage of parts and helps to reduce torque stress during parts removal. Immediately penetrates grease, sludge, and dirt for easy release. ZZAP Plus also cuts rust, red or white lead, tar, and carbon deposits without part injury.

APPLICATIONS: Recommended for use on nuts and bolts, brake cables, engines and motors, mufflers, plumbing assemblies, air driven tools, jammed locks, removing taps, gauges and valves, storing dies, rusty arbors, shackles, petroleum pipelines, starters, and drilling rigs.

PS-70™
Silicone Mold Release Agent

PS-70 aerosol is a non-staining, non-corrosive, odorless, and colorless mold-release agent for plastic and rubber. It prevents sticking, squeaking and binding.

APPLICATIONS: Recommended for use on molds, rubber molding, and rubber mounts.

TLR-44® PLUS
Multi-Purpose, Dry Lubricant and Release Agent

TLR-44 Plus aerosol contains PTFE* for superior friction reduction. It forms a clean, protective barrier that repels water, oil, dirt, and dust. Effective at a wide temperature range (-40°F to 500°F). Contains no 1,1,1-trichloroethane. Invisible after drying.

APPLICATIONS: Recommended for use on plastic, rubber, glass, metal, leather, wood, paper, bushings, platens, chutes, fittings, valves, conveyors, pulleys, vessels, woven belts, molds, bins, gaskets, springs, rollers, locks, fixtures, clamps, hinges, belts, journals, tanks, latches, bearings, and hinged panels.

* Polytetrafluoroethylene

PRINTER’S CHOICE™
Slide Table Lubricant

Printer’s Choice aerosol allows for smoother printing operations and it slickens surfaces better than silicone. Repels ink from treated surfaces. Does not plug air vents or pores and helps to provide uninterrupted-printing flow. Ideal for a wide variety of printing applications. Sprays on and buffs off for easy-to-use long lasting lubrication that protects and prolongs equipment life; fresh lemon scent.

APPLICATIONS: Recommended for use on paper slides, collators, steel tables, guide-ways, rollers, paper drills, table beds, conveyors, cutter blades, and cutting boards.
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EFO-1221™, L/S
Equipment Flushing Oil

Lubra Systems™ EFO-1221 is an equipment flushing oil that flushes and cleans the system of dirt, carbon, gum, and varnish deposits. The detergent formula will increase system efficiency and service life. Rate 1:30

APPLICATIONS: Recommended for use with four-stroke and two-stroke diesel or gasoline engine crankcases, gear boxes, transmissions, straight and universal hydraulic systems, rotary screw compressors, and reciprocating piston compressors.
ADVANSTM, L/S
Zinc-Free Hydraulic, Turbine, and Bearing Oil (5W20, 10W40)

Lubra Systems Advansys is excellent for hand-oiled or reservoir-fed machines, motors, bearings, chains, and many other applications. Contains a special additive package that assures longer lubricant life by controlling foam, stops seals from leaking, controls water contamination, provides better protection of metal surfaces from stress and wear, and helps prevent rust, prevents sludging, and inhibits oxidation. Advansys has a temperature range from -30°F to 320°F.

APPLICATIONS: Lubra Systems Advansys meets or exceeds the following performance requirements: Dennison-Abex HF-1, HF-2, and HF-0; Vickers I-286-S and M-2950-S; Ford M6C32; GM LH Specs: 04-1, 06-1, and 15-1; US Steel 127, 136; DIN 51524 parts 1 and 2.

FOOD-GRAdE OIL, L/S
NSF® Lubricating Oil (10W)

Lubra Systems Food-Grade Oil is specifically formulated to withstand decomposition while protecting against rust and oxidation. It is a colorless, odorless, and tasteless food-grade mineral oil of the highest purity. It is NSF certified to ANSI/NSF Standard 60 and is certified as Kosher with the Union of Orthodox Jewish Congregations of America. It also contains a Vitamin E oxidation inhibitor to help prevent oxidation.

APPLICATIONS: Lubra Systems Food-Grade Oil meets or exceeds the performance requirements of the following specifications: Vickers 282; ANSI/NSF 60; Certified as Kosher with the Union of Orthodox Jewish Congregations of America; and FDA Regulations 21 CFR 172.878 and 178.3620 (a).

* Reg TM National Sanitation Foundation

ROTALEXTM, L/S
Multi-Grade Rotary Air-Compressor Lubricant with MolysoTM** 5W20 (ISO 22, 32, and 46)

Lubra Systems Rotalex is a heavy-duty ashless, zinc-free compressor oil specifically formulated for rotary compressors. It is formulated with additive packages that prevent rust, corrosion, and oxidation and resists mixing with water, thereby providing a constant film of lubrication in the flood-lubricated compression chamber.

APPLICATIONS: Lubra Systems Rotalex meets or exceeds the performance requirements of the following specifications: Ingersoll-Rand Standard M5; Quincy and Gardner-Denver; Specs for Type 30 and 40 Air Compressor Oil.

* * Molyso is a soluble organic molybdenum additive

SCO, L/S
Premium Synthetic Oils for Rotary and Reciprocating Compressors (SAE 10, 20, and 30)

Lubra Systems SCO’s contain antiwear and rust protection additives for improved compressor efficiency. Reduces operating expenses and improves efficiency by extending parts life, reducing oil consumption, cutting maintenance costs, protecting against rust and corrosion, reducing energy consumption, and providing cleaner operating conditions.

APPLICATIONS: Lubra Systems SCO’s meet or exceed the performance requirements of the following specifications: Ingersoll-Rand Standard M5; Quincy and Gardner-Denver; Specs for Type 30 and 40 Air Compressor Oil.
SPINDLE OIL, L/S

Low-Viscosity Spindle Oil (10W)

Lubra Systems™ Spindle Oil prevents rust and corrosion and is oxidation resistant to prevent thickening and sludging. Spindle oil is suitable for lubrication of machine spindles rotating in excess of 3,600 rpm.

APPLICATIONS: Lubra Systems Spindle Oil meets or exceeds the following performance requirements: Denison-Abex HF-1; US Steel 126; and DIN 51524 part 1.

TEKOIL™, L/S

Multi-Grade Reciprocating Compressor Oil (10W50)

Lubra Systems Tekoil replaces and outperforms SAE 40 and 50 single grade oils. It maintains viscosity over a wide operating range to prevent thinning or thickening of oil. Contains several additive packages which extend the life of the oil by maintaining thermal stability and preventing the formation of acids and varnish build-up.

APPLICATIONS: Lubra Systems Tekoil meets or exceeds the performance requirements of the following specifications: Ingersoll-Rand Standard M5, Quincy and Gardner-Denver, Specs for Type 30 and 40 Air Compressor Oil.

VACUUM PUMP OIL, L/S

Vacuum Pump and Refrigerant Oil (ISO 68)

Lubra Systems Vacuum Pump Oil is a highly refined oil for vacuum pumps, refrigerant, and ammonia systems which reduces oxidation, viscosity shearing, and carbonization. Vacuum Pump Oil has a low wax and moisture content and leaves no residue on valves which reduces costly down-time and parts replacement. It is effective at low ambient temperatures.

APPLICATIONS: Recommended for use in ammonia refrigerant systems.

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"5 IN 1"™ PLUS, L/S

** Heating Oil Improver **

Lubra Systems™ “5 in 1” Plus is a blend of combustion aids, sludge dispersants, rust and corrosion inhibitors, and detergents designed to eliminate furnace fouling and fuel line clogging; reduce soot formation in the smokestack; stop formation of iron oxides that block screens, filters, and orifices; keep tanks, lines, strainers, pumps, and valves free of sediments and deposits; convert useless sludge into burnable fuel, and assure a cleaner system from tank to burner.

** APPLICATIONS:** Recommended for use in heating systems; not for use in internal combustion engines.

** DZL CLEAN™, M/M **

** Diesel Fuel System Cleaner **

Multi-Mist™ DZL Clean keeps the combustion chamber, piston rings, and injector tips clean while providing added lubricity to reduce wear of injector pumps. It also lowers the pour point, demulsifies water, and controls sludge in the fuel.

** APPLICATIONS:** For use in diesel engines only.

** FUEL-EZE™ **

** Advanced-Performance Gasoline Improver **

Fuel-Eze contains a combination of 8 additives that improve engine performance. It improves combustion and compression by removing gum, sludge, and varnish from upper cylinders, intake valves, rings, carburetors, fuel injectors, and fuel lines. It also eliminates ice formation in fuel lines and fuel delivery systems, and contains oxidation inhibitors that help prevent fuel breakdown during long-term storage.

** APPLICATIONS:** Recommended for use in gasoline engines only.

** MBF-1000™, C/M **

** Antimicrobial Agent **

Check-Mark™ MBF-1000 is a fuel biocide, fungicide, and preservative that eliminates the bacteria and fungi that are commonly found in fuel storage tanks. Effective in Ultra-Low Sulfur Diesel (ULSD) and Biodiesel. Check-Mark MBF-1000 seeks out and destroys organisms that form corrosive acids in tanks, lines, and seals. It will not affect the performance of other fuel additives and is accepted by engine manufacturers.

** APPLICATIONS:** Recommended for use in gasoline, kerosene, and diesel fuel.
Lubra Systems™ Redi-Melt will re-liquefy iced fuel, clear clogged filters, prevent gelling and icing of fuel, reduce friction and wear in engines, and extend equipment life.

**APPLICATIONS:** Recommended for use in diesel fuel only.

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**ROAD RUNNER™ CLEAR**

**Diesel Fuel Improver**

Road Runner Clear conditions diesel fuel to prevent severe operating problems caused by today’s poor quality fuel. Contains lubricants to reduce friction and wear, boosts cetane rating by up to 15%, separates out water; keeps injectors, fuel pumps, and filters cleaner; reduces corrosion, inhibits fuel oxidation and gum formation, and reduces gelling.

**APPLICATIONS:** Recommended for use in diesel engines only; use in bulk storage tanks or vehicle fuel tanks.

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**ROAD RUNNER™ WG**

**Winter Grade Diesel Fuel Improver**

Road Runner WG has all the same benefits as Road Runner Clear with the added benefit of a pour point depressant for easier startups and gelling protection at lower temperatures. Lower pour point reduces the chance of vehicle shut down and reduced gelling in cold temperatures.

**APPLICATIONS:** Recommended for use in diesel engines only; use in bulk storage tanks or vehicle fuel tanks.

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**ROAD RUNNER™ 2000**

**Diesel Fuel Improver**

Road Runner 2000 controls water, sludge, and gum in fuel. Provides quicker starting even in cold weather. Raises the cetane rating of the fuel and lowers the pour point of fuel. It helps prevent gelling/thickening of fuel in bulk and on-board tanks. It helps keep fuel filters and injectors clog free and cleaner. It provides smoother burn of fuel and eliminates hard to burn emulsions formed by fuel impurities and water. It reduces stack smoking and combustion knocking. It keeps wax crystals in the fuel from clumping and clogging depending on the pour point of the untreated fuel.

**APPLICATIONS:** Recommended for use in or diesel engines only; use in bulk storage tanks or vehicle fuel tanks.
ROAD RUNNER™ 2000 WG
Winter Grade Diesel Fuel Improver

Road Runner 2000 WG controls water, sludge, and gum in fuel. Provides quicker starting even in cold weather. Raises the cetane rating of the fuel and lowers the pour point of fuel. It helps prevent gelling/thickening of fuel in bulk and on-board tanks. It helps keep fuel filters and injectors clog free and cleaner. It provides smoother burn of fuel and eliminates hard to burn emulsions formed by fuel impurities and water. It reduces stack smoking and combustion knocking. It keeps wax crystals in the fuel from clumping and clogging depending on the pour point of the untreated fuel.

APPLICATIONS: Recommended for use in diesel engines only; use in bulk storage tanks or vehicle fuel tanks.

WINTER FLO™, L/S
Diesel Fuel Cold Flow Improver

Lubra Systems™ Winter Flo lowers diesel fuel pour point by as much as 40°F to prevent gelling and to keep fuel flowing in cold weather. It also decreases the chance of diesel equipment shutdown at low temperatures and provides anti-icing protection.

APPLICATIONS: Recommended for use in diesel only; use in bulk storage tanks and on-board tanks.

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EFO-1221™, L/S
Equipment Flushing Oil

Lubra Systems™ EFO-1221 is an equipment flushing oil that flushes and cleans the system of dirt, carbon, gum, and varnish deposits. The detergent formula will increase system efficiency and service life.

APPLICATIONS: Recommended for use with four-stroke and two-stroke diesel or gasoline engine crankcases, gear boxes, transmissions, straight and universal hydraulic systems, rotary screw compressors, and reciprocating piston compressors.
PATRIOT OIL™ 15W40, M/M

Premium Re-Refined Motor Oil

Multi-Mist™ Patriot Oil 15W40 represents the current state of the art in re-refined lubricant technology. New motor oil additives are blended with an ultra high quality, hydrotreated re-refined base oil to produce a motor oil that provides excellent engine protection and performance. Multi-Mist Patriot Oil 15W40 supports Executive Order 13101 “Greening the Government” and has superior thermal stability for higher temperature operation. It includes an advanced performance detergent package which helps prevent build ups, provides excellent wear protection, and is highly resistant to oxidation for longer oil life.

APPLICATIONS: Recommended for use in both diesel and gasoline engines requiring an API classification CI-4, CG-4, CF-4, CF, CF-2, and SL oil. Multi-Mist Patriot Oil 15W40 meets or exceeds the performance requirements of the following specifications: Cummins NTC 400; Mack EO-J, EO-K, EO-KII, and EO-M Plus; Caterpillar TO-2; and Allison C-4 and C-2 specifications. It also meets the requirements of military specifications MIL-L-2104F and MIL-L-2104G.

Additives | User Benefits
--- | ---
Premium Grade Base Oil | Highly re-refined, oxidation-resistant base stock provides consistent, long-term lubrication to reduce friction, decrease heat, and prevent wear.
Acid Neutralizers | Provide Multi-Mist Patriot Oil 15W40 with a Total Base Number rating of 10 to neutralize sulfuric acid and prevent the formation of sludge.
Friction Reducers | Plate out on metal surfaces to prevent friction and wear under heavy loads.
Anti-Wear Additives | Form a lubricant film on metal surfaces in the presence of heavy loads and high temperatures. Prevent cold welding.
Shear Stabilizers | Increase surface viscosity and improve shear stability to prevent viscosity breakdown.
Dispersants | Keep sludge, carbon, soot, varnish, and gum suspended in the oil and carry them to the filter. Prevent deposits on high-contact surfaces.
Detergents | Prevent carbon and soot formation in ring grooves and upper piston areas at high temperatures to decrease blowby into the crankcase.
Oxidation Inhibitors | Extend service life of the lubricant by retarding the oxidation or breakdown process.
Corrosion Inhibitors | Shield sensitive metals against acids and other corrosive compounds.
Rust Inhibitors | Plate metal surfaces to retard metal deterioration and reduce abrasive rust contaminants.
Viscosity Index Improvers | Maintain full viscosity over a wider temperature range to ensure full protection in fluctuating conditions. Eliminate the need to switch oil grades in different seasons.
Pour Point Depressants | Keep oil flowing properly in cold temperatures. Lower frictional drag and keep equipment running in temperatures down to -20°F.
LUBRA-MAX™ MG, L/S

Premium Engine Oils (10W30*, 15W40)

Lubra Systems™ Lubra-Max MG motor oils are the only multi-grade diesel or gasoline engine oils specifically formulated for construction and automotive equipment. They have a TBN of 14, which controls acid formation. They also help protect rings from failing, reduce piston and cylinder wear, and are compatible with all mineral-based engine oils. Also they prevent rust and corrosion, help control deposit formation, and are highly resistant to oxidation. They operate over a wide temperature range, 10W30 from -25 to 350°F, 15W40 from -20°F to 375°F.

* 6x1 gallon package name is PREMIUM MOTOR OIL 10W30, M/M

APPLICATIONS: Lubra-Max MGs meet or exceed the performance requirements (at 1:15 mix ratio) of the following specifications:
API CI-4/SL; Military Specifications: MIL-CID-AA-52306 and MIL-PRF-21040; Mack EO-N Premium Plus; Caterpillar TO-2 and CAT. 0.7% Sulfur; Cummins CES 20076.20077, 20078; Detroit Diesel 7SE 270; Volvo VDS/VDS-2/VDS-3; Global DHD-1; ACEA E-3,E-5; MB 228.1, 228.3, 229.1.

LUBRA-MAX™ SG, L/S

Premium Single Grade Motor Oils (10W, 30, 40, and 50)

Lubra Systems™ Lubra-Max SG has been designed with an outstanding detergent blend and an excellent additive package. They are specifically treated to give pour points lower than most competitive oils. They give superb anti-rust and anti-oxidant properties, high thermal stability, outstanding corrosion protection, and powershift transmission performance. Meets or exceeds APR service classifications CF, CF-2, and SH.

APPLICATIONS: Lubra-Max SGs meet or exceed the performance requirements of the following specifications: API CH-4, SJ, CG-4; MIL-L-2104E, MIL-L-46152D; Mack EO-J, EO-K, EO-KII; Caterpillar TO-2, 1G, 1H, CAT 10TBN, 10W and 30 Hydraulic Requirements: Cummins NTC 400; Allison C-3, C-4; Detroit Diesel 6V-53T.

LUBRA-MAX™ PLUS, L/S

Advanced Performance Motor Oil Improver

Lubra Systems Lubra-Max Plus contains 13 separate additives to boost wear protection and extend service life of conventional oils up to 100%. It also raises an oil’s Total Base Number (TBN) by 5 points to neutralize sulfuric acid, reduce sulfuric acid wear, prevent acid sludging, and extend oil life. Lubra-Max Plus also decreases carbon buildup and soot formation so engines run cleaner and compression levels stay high.

APPLICATIONS: Lubra-Max Plus meets or exceeds the performance requirements of the following specifications: (when added at a 9:1 mix ratio): API CJ-4 and CH-4; MIL-L-2104E, MIL-L-46152D; Mack EO-J, EO-K, EO-KII; Caterpillar TO-2, 1G, 1H, CAT 14TBN; Cummins NTC 400; Allison C-3; Detroit Diesel 6V-53T.
LUBRA-MAX™ ULTRA, L/S

Advanced Performance Synthetic Blend Motor Oils (15W40*, 10W30, 5W30†, and 5W20†)

Lubra Systems Lubra-Max Ultra motor oils are synthetic blend, multi-grade Diesel or Gasoline motor oils formulated for severe duty and extended drain intervals. They provide superior protection against deposit formation, oil breakdown, parts wear, and loss of compression. Excellent performance with EGR and ACERT™, equipment. Provide extended oil drain intervals because of superior thermal stability, high resistance to oxidation and high TBN that provides extended acid neutralization while maintaining low ash. Also contain Molyso™ for superior wear protection, and have high detergent retention to prevent deposit buildup. Compatible with synthetic, synthetic blend, and mineral-based motor oils.

† 6x1 gallon package size name is SYNTHETIC BLEND 5W20/5W30, M/M

APPLICATIONS: Lubra-Max Ultras meet or exceed the performance requirements of the following specifications: API Service Classification: CJ-4*, CI-4, CI-4 Plus, CH-4 Plus, and SM for gasoline engines; ACEA Eand-04 (2004); MIL-PRF-2104G, CID-A-A-52306A, and CID-AOA-52039B; Mack EO-O Premium Plus; MTU type 2; MAN 3275; Caterpillar ECF-1-A, ECF-2, ECF-3; CES 20091; Renault RVI RLD-3; Daimler Chrysler MB228.31, MB228.3; Detroit Diesel DDC 93K218; Volvo VDS-4.

*Lubra-Max Ultra motor oils are synthetic blend, multi-grade Diesel or Gasoline motor oils formulated for severe duty and extended drain intervals. They provide superior protection against deposit formation, oil breakdown, parts wear, and loss of compression. Excellent performance with EGR and ACERT™, equipment. Provide extended oil drain intervals because of superior thermal stability, high resistance to oxidation and high TBN that provides extended acid neutralization while maintaining low ash. Also contain Molyso™ for superior wear protection, and have high detergent retention to prevent deposit buildup. Compatible with synthetic, synthetic blend, and mineral-based motor oils.

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*Spectrum 15W40 is an advanced performance motor oil that can be used in gasoline or diesel engines that requires a multi-grade motor oil. It has a superior detergent blend, contains a dispersant package, has shear stability for better viscosity control, provides maximum oxidation stability, valve train wear, deposit control, and has better cold flow properties for easier starting in cold weather. Formulated with highly refined base oils, this 10 TBN motor oil handles the soot-loading created by engines employing cooled exhaust gas recirculation (EGR) systems. It is compatible with synthetic, synthetic blend, and mineral-based motor oils.

APPLICATIONS: Multi-Mist Spectra 15W40 meets or exceeds the performance requirements of API service classification CJ-4 and SM. Satisfies all OEM warranty requirements including the 2002 Mack EO-N Premium Plus specification and meets or exceeds the performance requirements of the following specifications: Mack EO-0 Premium Plus, ACEA E7, Allis-Chalmers, Deutz, Detroit Diesel DDC 93K218, Cummins 20091, Caterpillar ECF-1, Volvo VDS-4, Mercedes-Benz 228.3, Novistar International, General Motors/Allison C-4, JCB, JI. CASE, John Deere, Komatsu, and Global DHD-1.
EFO-1221™, L/S

Equipment Flushing Oil

Lubra Systems™ EFO-1221 is an equipment flushing oil that flushes and cleans the system of dirt, carbon, gum, and varnish deposits. The detergent formula will increase system efficiency and service life.

APPLICATIONS: Recommended for use with four-stroke and two-stroke diesel or gasoline engine crankcases, gear boxes, transmissions, straight and universal hydraulic systems, rotary screw compressors, and reciprocating piston compressors.
MANCO® M-P

Multi-Viscosity, High Performance Gear Oil
(80W90 and 85W140)

Manco M-Ps are heavy-duty gear oils specifically formulated for automotive, construction, and heavy industrial equipment. A superior additive package eliminates dry starts, helps prevent leaking seals, and functions well in wet conditions. Manco M-Ps contain polymers that create a “climbing” action to protect and lubricate gears even during shutdown. They also displace water for easy drainage, control foaming, lower operating temperatures, and resist sling-off and squeeze-out. They also prevent rust and corrosion while oxidation inhibitors prolong oil life. Manco M-Ps operate in the temperature range of -30°F to 300°F for 80W90 and -5°F to 300°F for 85W140.

APPLICATIONS: Manco M-Ps meet or exceed the performance requirements of the following specifications: All API GL-3, GL-4 and GL-5 (most GL-1 and GL-2 applications); DIN 51517 Part 3; David Brown S1.53.101; Cincinnati Milacron P-59; Military specification MIL-L-2105E; Viscosity Ranges 4EP, 5EP and 6EP; AGMA 250.04; Rockwell Standard 0-76 (80W90 only); and KW Dart specifications (80W90 only).

<table>
<thead>
<tr>
<th>Additives</th>
<th>User Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Premium Grade Base Oil</td>
<td>Highly refined base oil helps prevent oxidation, viscosity shearing, and carbonization — even at high temperatures.</td>
</tr>
<tr>
<td>Adhesive and Cohesive Polymers and Tackiness Agents</td>
<td>Keep oil on gears during high-speed operations and during idle periods. Help prevent mechanical wear, stress fractures, and dry starts. (Dry starts account for up to 85% of gear wear.)</td>
</tr>
<tr>
<td>Seal Conditioners and Leak Inhibitors</td>
<td>Unlike many gear oils, Manco M-Ps are completely compatible with all seal materials. Special conditioning compounds keep seals from hardening, shrinking, and rupturing.</td>
</tr>
<tr>
<td>Friction Reducers / Anti-Wear Additives</td>
<td>Prevent cold welding on “hot spot” contact points to reduce friction and lower operating temperatures.</td>
</tr>
<tr>
<td>EP Additives and Shock Load Reducer</td>
<td>Prevent metal-to-metal contact under heavy loads, low speeds, high-torque, and high-stress conditions. Cushion impact and reduce drive train chatter to prolong gear and bearing life.</td>
</tr>
<tr>
<td>Oxidation Inhibitors</td>
<td>New-generation oxidation inhibitors prevent oil breakdown in the presence of agitation, heat, and moisture. Reduce the formation of corrosive acids, resins, and oxidation sludge that attack seals and cause wear on bearings.</td>
</tr>
<tr>
<td>Rust and Corrosion Inhibitors</td>
<td>Maintain a full protective barrier on gear teeth, gear faces and the entire drive train to prevent corrosive pitting, rust flaking, and metal deterioration. Provide excellent protection on softer “yellow” metals up to 250°F.</td>
</tr>
<tr>
<td>Anti-Foam Agent</td>
<td>Withstand agitation and heat without forming foam contaminants. Reduce pressure levels on seals and vents.</td>
</tr>
<tr>
<td>Demulsifiers</td>
<td>Displace water, moisture, and condensate to reduce chemical wear and extend equipment life. Prevent oil from washing off gear surfaces.</td>
</tr>
<tr>
<td>Viscosity Index Improvers</td>
<td>Maintain full viscosity over a wider temperature range to ensure full protection in fluctuating conditions. Eliminate the need to switch oil grades in different seasons.</td>
</tr>
<tr>
<td>Pour Point Depressants</td>
<td>Prevent thickening and allow the oil to flow freely in cold temperatures.</td>
</tr>
</tbody>
</table>
LUBRA-TECH™, L/S

Advanced Performance Single Weight Gear and Bearing Oils (ISO 68, 150, 220, 320, 460, and 680)

Lubra Systems™ Lubra-Techs are extreme-pressure, single-grade gear and bearing oils specifically designed for heavy industrial equipment. They can be used in operating temperatures between 10°F and 250°F and may be added as make-up oils to other straight-weight paraffin-based gear oils.

APPLICATIONS: Lubra-Techs meet or exceed the performance requirements of the following specifications: All API GL-3, GL-4 (most GL-1 and GL-2 applications); DIN 51517 Part 3; David Brown S1.53.101; Cincinnati Milacron P-59; US Steel #224; AGMA 9005 and 250.04; and AGMA 4EP to 8EP.

LUBRA-TECH™ BIO, L/S

Heavy-Duty Biodegradable Gear Oil (ISO 220)

Lubra Systems™ Lubra-Tech Bio was designed for construction and industrial equipment applications where incidental environmental contact is likely. It is made from sunflower oil and provides excellent extreme-pressure characteristics while preventing rust. It also provides shear stability and shock load reducing agents.

APPLICATIONS: Lubra-Tech Bio meets or exceeds the performance requirements of the following specifications: All API GL-3, GL-4 (most GL-1 and GL-2 applications); DIN 51517 Part 3; David Brown S1.53.101; Cincinnati Milacron P-59; Viscosity Ranges 4EP and 5EP; and AGMA 215.02 and 250.04.
LUBRA-TECH™ FG, L/S
Premium Food-Grade Gear and Bearing Oils (ISO 90 and 140)

Lubra Systems™ Lubra-Tech FGs are extreme-pressure gear and bearing oils which were specifically formulated to solve problems with food-processing equipment. They can be used in operating temperatures between 0°F and 300°F and may be added as make-up oils to other straight-weight paraffin-based gear oils.

APPLICATIONS: Lubra-Tech FGs meet or exceed the performance requirements of the following specifications: FDA Regulations Part 21 CFR 178.3570.

LUBRA-TECH SYNTETHIC, L/S
Advanced Performance Synthetic Multi-Grade Gear Oils (75W90 and 75W140)

Lubra Systems™ Lubra-Tech Synthetics reduce foaming, will not emulsify in water, and have superior thermal and oxidation stability. They are formulated for use at start-up temperatures as low as -40°F. Lubra-Tech Synthetics are an excellent choice when synthetics are recommended by the manufacturer. Ideal for construction, automotive, and some industrial applications. Superior performance in high temperature and low temperature applications.

APPLICATIONS: Lubra Systems Lubra-Tech Synthetics meet or exceed the performance requirements of the following specifications: All API GL-3, GL-4, and GL-5 (most GL-1 and GL-2 applications); DIN 51517 Part 3; David Brown S1.53.101; Cincinnati Milacron P-59; Military specification MIL-L-2105E.

TOP-GEAR™ ULTRA, L/S
Synthetic Lithium-Complex Open-Gear Lube

Lubra Systems™ Top-Gear Ultra is a clean non-staining lube that stays in place, provides protection against rust and corrosion, while forming a protective barrier cushioning impact in-between meshing gears. It is a synthetic polybutene base with lithium-complex soap thickener. The synthetic base gives it good corrosion resistance and anti-wear properties while the lithium-complex thickener gives it good resistance from slinging off, excellent water resistance, and the ability to resist extreme pressures. It has an operating temperature range of 375°F continuous operation with up to 400°F intermittently. The drop point is 500°F.

APPLICATIONS: It is excellent for use on all open gears and is suitable for use on lift slides, roller and sliding tracks, and pulleys.

TOP-GEAR™ PLUS, L/S
Sprayable Open Gear Lubricant

Lubra Systems™ Top-Gear Plus is a sprayable moly open-gear lubricant that prolongs equipment life by protecting against extreme pressure, rust, and corrosion. Strong adhesion ensures even coverage, maximum protection, and prevents water washout. Effective up to 200°F intermittently.

APPLICATIONS: It can be applied directly to gears without any special prep; for best results remove the old lubricant.
SYNTHETIC TRANSAXLE LUBE, L/S

Eaton Roadranger Approved Transaxle Lubricant 75W90

Lubra Systems™ Synthetic Transaxle Lube is a synthetic transaxle oil that is Eaton Roadranger approved and is specifically formulated for Eaton Dana Spicer PS 163 transaxle specifications. It is designed to meet 500,000 drain and 750,000 mile factory fill warranties.

APPLICATIONS: Lubra Systems Synthetic Transaxle Lube meets or exceeds the performance requirements of the following specifications: API GL-5 and MT-1; Eaton PS-037, PS-164 (500,000 extended drain, 750,000 mile extended warranties); Dana SHAES-234, SHAES-256 REV C; General Electric DS0E3C; Harnischfeger (PandH) 474; MIL-PRF-2105E; Mack GO-J+ (2834), GO-J (2832), GO-H/S, GO-J/S (500,000 extended drain, 750,000 mile extended warranties); Meritor 0-76-E (75W90), and Navistar TMS 6816.

SYN 50 TRANSMISSION LUBE, L/S

Eaton Approved Transmission Lubricant

Lubra Systems™ SYN 50 Transmission Lube is a transmission oil specifically formulated for Eaton Fuller PS 164 transmission specifications. It improves cold-weather shifting, controls high temperature deposits, prevents rust and corrosion, protects bearings and synchronizers, and resists oxidation and viscosity breakdown.

APPLICATIONS: Lubra Systems Syn 50 Transmission Lube meets or exceeds the performance requirements of the following specifications: API GL-1 to GL-4, MT-1; Eaton PS-081 and PS-164 (500,000 extended drain, 750,000 mile extended factory fill warranties); Mack TOA-Plus (500,000 extended drain applications, Class A and B highway applications); Mack 014 GS 12031Class AA, BB, C, CC (vocational applications, 80,000 mile extended drain); Meritor (Rockwell) 0-81 (500,000 extended drain applications); Navistar TMS 6816; and MIL-L-2104 Synthetic Lubricant.

TO-4 TRANSMISSION OIL, L/S

Single-Weight Powershift Transmission and Drive Train Fluid (SAE 10W, 30, and 50)

Lubra Systems™ TO-4 Transmission Oil was specifically formulated for Caterpillar TO-4 TDTO oil specifications. It is a heavy-duty formula that increases load-carrying capacity and component durability, improves gear wear performance, and provides maximum oxidation stability. It also eliminates transmission slippage caused by many CD/TO-2 commercial engine oils. It also increases clutch disc life by up to 45%.

APPLICATIONS: Lubra Systems TO-4 Transmission Oil meets or exceeds the performance requirements of the following specifications: Caterpillar TO-4 TDTO; Allison C-4; and API GL-3.
ELITE™

Multi-Purpose, Heavy Load, Extreme Pressure, High Temperature Grease in an Aluminum-Complex Base with Moly and Graphite

Elite NLGI #2 Heavy-duty Aluminum-Complex Grease specifically formulated for construction and heavy industrial equipment. Designed to handle the harsh environment of dirt, dust, mud, water, heavy loads, and heat. Will save downtime, labor costs, and parts replacement. From 0°F to 275°F continuous and up to 400°F intermittent.

ELITE NLGI #1 WG also available. Winter-Grade version of Elite designed for easier pumpability in cold temperatures from -20°F to 300°F continuous, and intermittent up to 400°F.

APPLICATIONS: Recommended for use on bearings found in construction, mining, and logging operations, automotive applications, manufacturing, steel mills, marine applications, paper mills, rubber industry, and municipalities.

Elite meets or exceeds the performance requirements of the following specifications

- US Steel Mill Grease Specifications
  - Roll Neck Grease Req. No. 340
  - Extreme Pressure Grease Req. No. 350
  - Extra Duty EP Grease Req. No. 352
  - Extreme-Temp. Req. No. 355, 370, and 372
  - Ball and Roller Bearing Req. No. 371
  - Mill Utility Grease Req. No. 375
- Military Spec. MIL-G-23549C and MIL-G-2345C
- Case 251H EP
- Caterpillar MPG
- Ford M1693A

Additives | User Benefits
---|---
Premium Grade Base Oil | Superior grade, highly-refined base oil resists oxidation, hardening, and high-temperature breakdown to maintain better lubricity.
Aluminum Complex Base | Withstands high heat - is the only lubricant with heat reversion characteristics. Resists water washout.
Adhesive and Cohesive Polymers, Tackiness Agents | Highly-elastic polymers hold grease together and in place to reduce squeeze-out, channeling, and sling-off. Prevent loss of lubricant that leaves bearings “starved”.
Rust and Corrosion Inhibitors | Block out corrosive elements such as acids, water, condensate, and steam by forming a protective barrier on equipment surfaces to prevent chemical wear.
Extreme Pressure (EP) Agents | Provide added lubricant film strength to increase load-carrying ability of equipment. Help prevent extreme wear that can occur under heavy loads.
Anti-Wear and Friction Reducing Additives | Prevent metal-to-metal contact, two-surface wear, vibration, and chatter. Keep high friction surfaces, such as bearings, properly lubricated to prevent metal loss, downtime, and replacement expenses.
Oxidation Inhibitors | Extend lubricants service life by retarding the oxidation process. Provide a chemical shield that prevents the oxidizing effects of oxygen and water.
Shock Load Reducers | Cushion impact to minimize the stress, vibration, and chatter that can occur under heavy loads and during start-stop operations.
Molybdenum Disulfide | Plates metal surface asperities completely with a premium lubricant coating that withstands high pressures, heavy loads, and shear conditions. Also, reduces abrasive wear.
Graphite | Offers added high temperature stability and guards against water washout.
BEARING PURGE, M/M

Bearing Purging and Cleaning Compound

Multi-Mist™ Bearing Purge is the only patented bearing purge compound that provides mechanical polishing and chemical cleansing in one treatment. It extends bearing life and improves equipment by removing deposits and contaminants. It inhibits rust and corrosion and works with NLGI #1 and #2 grade greases. Works from 0°F to 400°F. Patent # 7,241,723

APPLICATIONS: Recommended for use in mobile equipment, industrial manufacturing, utility and power plants, paper mills and packaging, etc.

**The only bearing purging compound proven to extend bearing life and improve grease performance.**

* Safely removes varnish build-up, softens hardened grease and flushes contaminants to reduce operating temperatures, energy consumption and bearing wear.

**Extends the Life of Equipment and Grease**

- Industrial Manufacturing
- Utility & Power Plants
- Food Processing
- Printing Facilities
- Government Agencies

**Before Bearing Purge**

![Varnished Bearing](image)

**After Bearing Purge**

![Varnish Removed](image)
ELITE™ RED

Multi-Purpose, Heavy Load, Extreme Pressure, High Temperature Grease in an Aluminum-Complex Base with Molyso™ and Polymite™

ELITE RED NLGI #2. Highly visible red formulation of Elite allows for easy inspection of lubrication points. From 0°F to 300°F continuous and up to 400°F intermittent.

ELITE RED NLGI #1 is also available. Winter-Grade version of Elite Red designed for easier pumpability in cold temperatures from -20°F to 300°F continuous, and intermittent up to 400°F.

ELITE RED NLGI #0. Excellent lubricant for any application where a “0” pourable grease is specified; ideal for robotic and fine product applications. From -25°F to 300°F continuous, intermittent up to 400°F. Available in bulk only.

ELITE RED NLGI #00. Excellent lubricant for leaking final drives, slow moving gear boxes, high speed drills, and other applications that require a #00 flowable grease. From -40°F to 300°F continuous, intermittent up to 400°F. Available in bulk only.

APPLICATIONS: Recommended for use on bearings found in construction, mining, and logging operations, automotive applications, manufacturing, steel mills, marine applications, paper mills, rubber industry, and municipalities.

ELITE™ FG

Food-Grade Aluminum-Complex Lubricant

Elite FG NLGI #2 is a heavy-duty aluminum-complex food-grade grease specifically formulated for food processing equipment. Meets USDA H1 and H2 requirements. Stays in place to prevent wear under heavy load conditions. Exceptional heat reversion properties and superior water resistance. Prevents rust and corrosion and resistant to acid and caustic wash down. White non-staining formula. From -10°F to 300°F continuous, intermittent up to 400°F.

Elite FG NLGI #1 is designed for easier pumpability in cold temperatures and automated lubrication systems.

APPLICATIONS: Recommended for use on seamers, rollers, conveyor parts, bearings, gears, guide rails, grid belts, cams, casters, sprockets, stirrups, plungers, slides, and cookers.
ELITE™ SUPREME

Extreme-Duty, Multi-Purpose, Synthetic Blend Calcium Sulfonate Grease

Elite Supreme NLGI #2 is a patented synthetic blend Calcium Sulfonate grease specially formulated for construction and heavy industrial equipment. It protects and stays in place under severe load conditions and contains a high concentration of moly and graphite to reduce heat friction and abrasive wear. Its water resistance keeps it from washing out during operation even when totally submerged. Elite Supreme also bears speeds of up to 20,000 rpm and has a wide temperature range of -10°F to 400°F continuous and 500°F intermittent. Patent # 5,126,062

Elite Supreme NLGI #1 is designed for automated lubrication systems where increased pumpability is required. Also recommended in cold temperatures.

APPLICATIONS: Recommended for use on bearings found in construction, mining or logging operations, automotive applications, manufacturing, steel mills, marine applications, paper mills, rubber industries, and municipalities.

ELITE™ SUPREME BLUE

Extreme-Duty, Multi-Purpose, Synthetic Blend Calcium Sulfonate Grease

Elite Supreme Blue NLGI #2 has the same great features as Elite Supreme but in a blue formula. Elite Supreme Blue also bears speeds of up to 20,000 rpm and has a wide temperature range of 10°F to 400°F continuous and 500°F intermittent.

Elite Supreme Blue NLGI #1 is designed for easier pumpability in cold temperature applications.

APPLICATIONS: Recommended for use on bearings found in construction, mining or logging operations, automotive applications, manufacturing, steel mills, marine applications, paper mills, rubber industries, and municipalities.
HEAT SHIELD™, M/M
Extreme Temperature Grease

Multi-Mist™ Heat Shield NLGI #2 is the only patented grease specifically formulated to protect equipment exposed to extremely high temperatures. Maximum continuous temperature 550°F, use up to 2000°F intermittently with monitored re-lubrication. Patent # 5,126,062.

APPLICATIONS: Recommended for use in mining, steel mills, brick plants, asphalt plants, glass manufacturing, forges and foundries, kilns, furnaces, and ovens, etc.

DYNAMAX™ FG, L/S
Extreme Load and Pressure, High-Temperature, Calcium Sulfonate NLGI #2 Food-Grade Grease

Lubra Systems™ Dynamax FG is an advanced calcium sulfonate, white, food-grade, NLGI #2 grade grease. It contains rust and corrosion inhibitors which form a protective barrier to prevent chemical wear, adhesive and cohesive polymers to keep grease in place, and a calcium sulfonate base that is extremely water resistant. Dynamax resists heat, water, steam, oxidation, and dirt entry. It can be used on bearing speeds up to 20,000 RPM. May be used for continuous operation at temperatures of -10°F to 400°F and intermittently to 500°F.

APPLICATIONS: Suitable for use in a broad range of applications where incidental contact with food occurs and for all greasing requirements on food processing machinery.

CCL-2000™, M/M
Extreme Temperature Synthetic Grease

Multi-Mist™ CCL-2000 is an extreme temperature heavy-duty synthetic NLGI #2 grade grease. It is a synthetic base oil grease with an organo-clay thickener for maximum hi-temp performance that lasts 3 to 5 times longer than mineral oil greases. It has a heat resistant base that allows a higher melting point than conventional lubricants. It also has anti-wear and anti-weld agents to reduce friction and wear; contains corrosion and oxidation inhibitors, plus adhesion compounds for superior metal adhesion. CCL-2000 remains heat-stable at temperatures up to 400°F continuous with relubrication every 12 to 18 hours and 500°F intermittent with relubrication every 6 to 8 hours.

APPLICATIONS: Recommended for use anywhere the temperature remains constantly above 275°F; such as ovens, kilns, hi-temp bearings, chains, hi-temp pumps, doors with grease fittings etc.

BARRICADE™
Multi-Purpose, High-Speed, and Low Temperature Applications Calcium-Base Lubricant

Barricade NLGI #2 is a Calcium 12 Hydroxy Stearate grease designed specifically for high-speed bearings up to 55,000 rpm or at very low temperatures down to -60°F. From -60°F to 200°F continuous, and can be used up to 250°F intermittently. It also has superior water resistance that prevents rust and corrosion and keeps the lubricant from washing out.

APPLICATIONS: Recommended for most automotive and industrial applications.
LUBE SHIELD™, L/S
High-Temperature, Moly Grease in a Bentonite Base

Lubra Systems™ Lube Shield NLGI #2 is an multi-purpose, non-melting grease that contains molybdenum disulfide for superior performance at high temperatures and pressures. It performs in temperatures from 0°F to 300°F during continuous operation and is effective up to 500°F on equipment operating intermittently with monitored re-lubrication. It also provides superior outdoor protection under conditions in which conventional lubricants break down and run. It resists most acids, oxidation, dirt, weather, water, steam, and salt spray; contains rust and corrosion inhibitors.

APPLICATIONS: Recommended for use in industrial, construction, farm, mining and marine equipment. Use in plain and anti-friction bearings, sleeve bearings, slides, driveshaft splines, grease cups, chains, sliding surfaces, conveyors, chassis, etc.

LUBRAPLEX™, L/S
Advanced Performance Lithium-Complex Grease

Lubra Systems Lubraplex NLGI #2 is a Lithium-Complex grease suitable for use in a broad range of applications exhibiting excellent anti-wear, extreme pressure, and corrosion protection as well as excellent water resistance, rust inhibition, shock load reduction, and high temperature capabilities. Provides excellent lubrication for wheel bearings. From 0°F to 275°F continuous, intermittent up to 450°F.

APPLICATIONS: Recommended for use anywhere a NLGI #2-grade general-purpose grease is needed.

SPEC-LUBE™, L/S
High-Temperature, White Food-Grade Grease with PTFE*

Lubra Systems Spec-Lube NLGI #2 is high-temperature, white food-grade, non-melting Bentone-based grease with PTFE* for greater lubricity. It is water resistant, odorless, non-staining, and does not discolor or oxidize. It is effective at temperatures from 10°F to 300°F in continuous operation, and up to 500°F in intermittent operation with monitored re-lubrication.

APPLICATIONS: Recommended for use anywhere a white food-grade lubricant is needed.

*Polytetrafluoroethylene

STAUNCH™
Premium Performance, Non-Staining White Lithium Grease

Stauch NLGI #2 is an outstanding all-purpose and all-weather lithium grease. It has a minimum operating temperature of 0°F and a maximum operating temperature of 250°F, with intermittent temperature up to 350°F with frequent lubrication. Stauch is a white grease, which is very useful in areas where conventional black greases will stain.

APPLICATIONS: Recommended for use anywhere an NLGI #2 grade white grease is needed.
EFO-1221™, L/S
Equipment Flushing Oil

Lubra Systems™ EFO-1221 is an equipment flushing oil that flushes and cleans the system of dirt, carbon, gum, and varnish deposits. The detergent formula will increase system efficiency and service life.

APPLICATIONS: Recommended for use with four-stroke and two-stroke diesel or gasoline engine crankcases, gear boxes, transmissions, straight and universal hydraulic systems, rotary screw compressors, and reciprocating piston compressors.
HYDREX™

Multi-Viscosity Hydraulic Oil (10W30)

Hydrex™ is a multi-viscosity hydraulic oil that replaces and outperforms three of the standard ISO single-grade hydraulic oils. It lasts up to twice as long to reduce oil usage and service downtime and increases the efficiency of hydraulic systems by as much as 100% when compared with ordinary single-grade oils. Hydrex has a seal swelling additive that reduces leakage around seals to provide longer seal life and reduce oil waste. It reduces oil inventory, simplifies hydraulic maintenance, and eliminates the chance of a wrong viscosity grade being used in a hydraulic system. It can be effectively used from -30°F to 325°F for continuous operation and up to 375°F for intermittent service.

APPLICATIONS: Hydrex meets or exceeds the performance requirements of the following specifications: Dennison-Abex HF-1, HF-2, HF-0; Vickers I-286-S and M-2960-S; Ford M6C32; GM (LS-2) LH03,04-1, 06-1, 15-1; JCB AW VG-32; Parsons AMCA AW Hydraulic; DIN 51515, 51524 part 2; US Steel 126, 127; BF Goodrich 0152; Lee-Norse 100-1; AFNOR E 48-603; Jeffery No. 87; and Vickers L-286-S, M2960-S.

Additives

<table>
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<tr>
<td>Premium-Grade Base Oil</td>
<td>Highly refined base oil helps prevent oxidation, viscosity shearing, and carbonization — even at high temperatures.</td>
</tr>
<tr>
<td>Seal Conditioners and Leak Inhibitors</td>
<td>Completely compatible with all seal materials. Special conditioning compounds keep seals from hardening, shrinking, or rupturing.</td>
</tr>
<tr>
<td>Red Color Indicator</td>
<td>Helps pinpoint leaks after change-outs.</td>
</tr>
<tr>
<td>Corrosion Inhibitors</td>
<td>Shield sensitive metals such as valve linings against acids and other corrosive compounds.</td>
</tr>
<tr>
<td>Oxidation Inhibitors</td>
<td>Extend oil life, maintain thermal stability, and retard sludge and deposit formation to provide full-term protection and reduce change-outs.</td>
</tr>
<tr>
<td>Demulsifiers</td>
<td>Help separate water contaminants for easier drainage.</td>
</tr>
<tr>
<td>Anti-Wear Agents</td>
<td>Extend service life of pumps, valves, actuators, pistons, rotors, and gears; reduce wear metals throughout the system.</td>
</tr>
<tr>
<td>Anti-Foam Agents</td>
<td>Inhibit oil foaming during operation to reduce seal pressure, prevent pump cavitation wear, and decrease air entrapment that can cause erratic operation.</td>
</tr>
<tr>
<td>Sludge Inhibitors</td>
<td>Reduce the buildup of oxidation contaminants such as varnish and gum to keep systems cleaner, reduce filter clogging, prevent stalling, and decrease seal deterioration.</td>
</tr>
<tr>
<td>Rust Inhibitors</td>
<td>Slow metal deterioration and reduce abrasive rust contaminants.</td>
</tr>
<tr>
<td>Viscosity Index Improvers</td>
<td>Maintain full viscosity over a wider temperature range to ensure full protection in fluctuating conditions. Eliminate the need to switch oil grades in different seasons.</td>
</tr>
<tr>
<td>Pour Point Depressants</td>
<td>Lower effective operating temperatures to reduce oil thickening, lower frictional drag, and prevent shutdowns in cold weather.</td>
</tr>
<tr>
<td>Friction Reducers</td>
<td>Keep high-friction surfaces fully lubricated to reduce breakdowns and lower operating temperatures.</td>
</tr>
<tr>
<td>Shock Load Reducers</td>
<td>Cushion impact and reduce vibration and noise under stress loads and stop/start conditions.</td>
</tr>
<tr>
<td>Metal Deactivators</td>
<td>Neutralize highly reactive metals such as copper to prevent electrolytic corrosion.</td>
</tr>
</tbody>
</table>
LUBRA-GUARD™ BIO, L/S

Biodegradable* Hydraulic Oils (ISO 32, 46, and 68)

Lubra Systems Lubra-Guard Bio are biodegradable hydraulic oils that were designed for applications where incidental environmental contact is likely. They are formulated with highly refined, natural ester oil and provides premium anti-wear hydraulic oil properties. They are non-sterilizing to soil, compared to conventional mineral-based oils, and will biodegrade in the presence of moisture, bacteria, and heat, leaving no long-term detrimental effects. The working temperature for these products is 10°F to 300°F continuous, and up to 400°F intermittently.

* When tested using CEC-L-33-T-82 test, the results shall meet or exceed the following value: 94%

APPLICATIONS: Lubra-Guard Bio meets or exceeds the performance requirements of the following specifications: Denison-Abex HF-1, HF-2, HF-0; Vickers I-286-S and M-2950-S; US Steel 136 and 127; JCB AW VG-32; Parsons AMCA AW Hydraulic; DIN 51524 part 2.

* When tested using CEC-L-33-T-82 test, the results shall meet or exceed the following value: 94%
**LUBRA-GUARD™ FG, L/S**

**Food-Grade Hydraulic Oils (ISO 32, 46, 68, and 100)**

Lubra Systems™ Lubra-Guard FGs are food-grade lubricants designed specifically for food processing equipment. They provide excellent wear, rust, and oxidation protection. They are colorless, odorless, tasteless, and non-staining. The working temperature range for these products is 10°F to 275°F continuous, and up to 325°F intermittently. They meet the requirements of U.S. FDA regulation 21 CFR 178.3570 for lubricants with incidental contact with food.

**APPLICATIONS:** Lubra-Guard FGs meet or exceed the performance requirements of the following specifications: Denison-Aibel HF-1, HF-2, HF-0; Vickers I-286-S and M-2950-S; US Steel 136 and 127; JCB AW VG-32; Parsons AMCA AW Hydraulic; and DIN 51504 part 2.

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**THF ULTRA, L/S**

**Universal Transmission Hydraulic Fluid**

Lubra Systems THF Ultra is a heavy-duty torque fluid for universal hydraulic systems formulated for the extreme operating conditions of construction equipment. It is formulated especially for the new generation of wheeled tractors with universal hydraulic systems. This includes most farm and industrial tractors that have a power takeoff. The transmission power takeoff, power steering, and power brake equipment in these systems use a single operating fluid.

**APPLICATIONS:** Lubra Systems THF Ultra meets or exceeds the performance requirements of the following specifications: Allis-Chalmers Power Fluid 821, P/N 257541; Deutz-Allis PF821XL; Case, Case IH, International, Hytran Plus MS-1206, MS-1207, JC-143, Case TFB; John Deere J303 Super Fluid (formerly J14B); J20A, J20B, J20C; Ford New Holland ESN M2C134A-C and -D; Steiger SEMS 17001; Versatile HyGear Fluid 23M and 24M; Caterpillar TO-2; Kubota Universal Tractor Fluid; Massey-Ferguson Permatran, M1127A, M1129A; and White Farm Equipment P/N Q-1722, Q1826 Universal Fluid.

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**TRAC-PLUS™ ULTRA, L/S**

**Universal Tractor Hydraulic Fluid Improver**

Lubra Systems Trac-Plus Ultra contains 18 separate additives to boost a universal torque fluid’s existing additive package and improve over-all equipment performance. It saves money by reducing oil leakage, cutting change-out expenses, and preventing breakdowns. Boosts the performance of tractor hydraulic transmission (torque) fluids and extends fluid service life by up to 1,000 hours.

**APPLICATIONS:** Lubra Systems Trac-Plus Ultra meets or exceeds the performance requirements of the following specifications (at 15:1 mix ratio): Case, Case IH; International MS-1207; John Deere JD M, J20A, J20B and J20C; Ford M2134C and -D; Steiger 52M5 17001; Versatile 23M & 24M; Allison C-3; Caterpillar TO-2; Denison HF-0; Vickers M-2950-S; I-286-S; AGCO-Allis (Allis-Chalmers, Deutz-Allis); Hesston-Fiat, Kubota, Massey-Ferguson, and White: M1141, M1135, and M1139.