

Cenex[®] Lubricants **Oil and Gas Exploration**



OUR ENERGY COMES THROUGH[®]



**Formulated
for superior
performance
in the oil and
gas industry**



In a work environment that relies heavily on countless moving parts, breakdowns are costly. You can't afford to use lubricants that might not go the distance. That's why the oil and gas industry depends on Cenex® Lubricants for premium performance and confidence that equipment will run its best.

We know your challenges

Cenex is the energy brand of CHS, the nation's largest cooperative refiner, operating out of Laurel, Montana and McPherson, Kansas to produce more than 5.9 million gallons of fuel each day. With nearly eight decades in the refined petroleum business, we understand the demands of the oil and gas industry workplace—and the need for lubricants to deliver in time-critical conditions.

Full family of products

We offer a variety of lubricants specifically formulated for superior performance across the full range of oil and gas industry applications: drilling, wirelining, production operations, and well servicing. So you have a one-source solution for all your equipment needs.

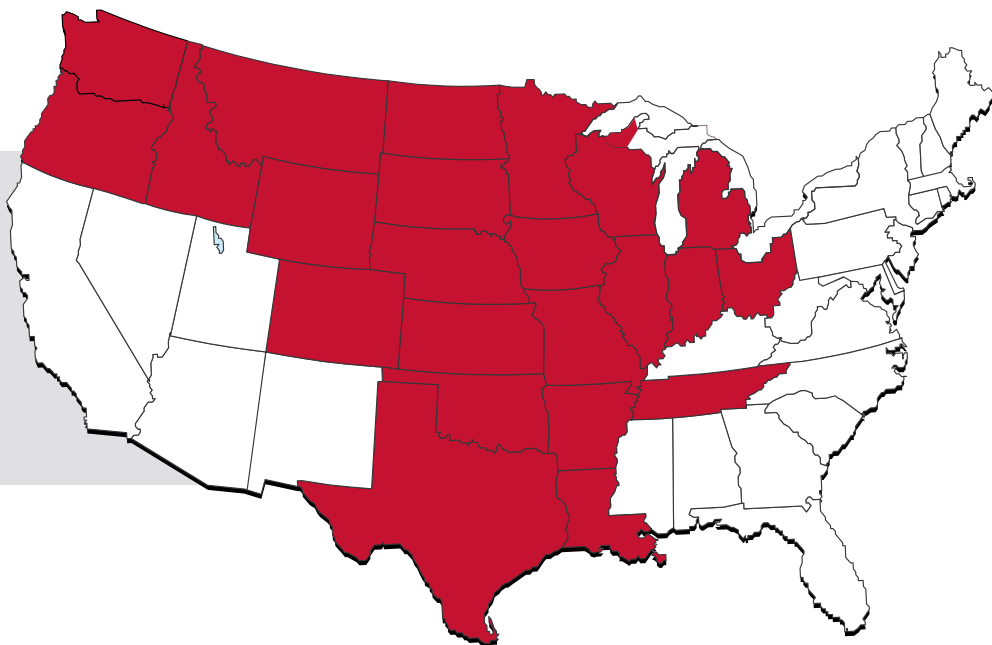




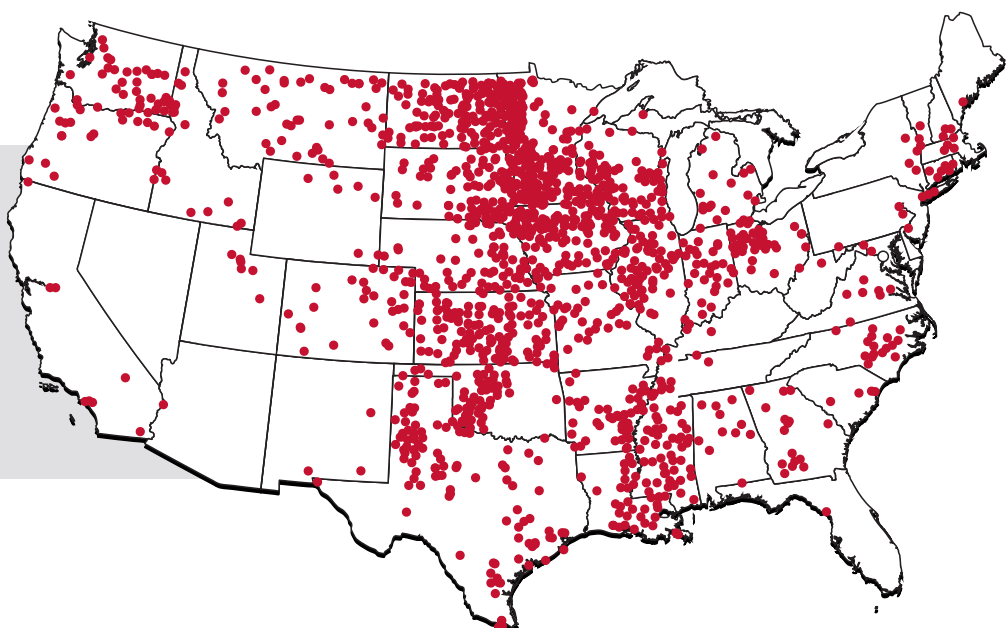
When you “need it now,” Cenex can deliver

Cenex has been serving commercial and industrial businesses, agriculture and consumers throughout the United States since 1931. We have the network in place to ensure you get what you need, when you need it, wherever you are located.

To streamline distribution, Cenex Lubricant Terminals are set up throughout the U.S. heartland and Pacific Northwest, meeting customer demands across 20 states.



Cenex lubricants are distributed along with refined fuels, propane and related equipment at nearly 1,500 Cenex-product locations and convenience stores.





Technical support

When you choose Cenex lubricants, you gain the expertise of our world-class Technical Services staff: a trusted go-to resource for advice on proper fluids for application, equipment performance concerns, requests for specially blended lubricants, and more. Expect the highest level of ongoing attention and support.

You also gain access to our LubeScan® premium lubricant analysis program, which aids in diagnosing the condition of oil-lubricated equipment, helping to catch potential problems before expensive repairs and/or downtime occur.

Technical Services and Support Include:

- Specially blended lubricants
- Manufacturer technical specifications
- Product cross references and recommendations
- Sample analysis
- Fluid monitoring
- Lubricant surveys
- Equipment failure analysis
- Field test studies
- Safety data sheets

Quality you can trust

All of our facilities are ISO 9001:2008-certified and have strict quality assurance programs in place throughout all phases of production. Fully equipped, on-site laboratories ensure the quality of incoming raw materials and final blended lubricants before a product is shipped. For you, this guarantees a consistently high-quality lubricant and top performance for your equipment.

Production facilities

Amarillo, TX

Produces 8+ million gallons of lubricants annually in a facility that includes a 178,000 square foot warehouse

Inver Grove Heights, MN

Produces 15 million gallons of lubricants annually in a facility that includes a 170,000 square foot warehouse

Kenton, OH

Produces 2 million gallons of various lubricants per year in a facility that includes a 27,000 square foot warehouse

A Special Blend of Efficiency, Quality Assurance and Customer Support

Cenex® lubricants meet or exceed industry specifications. That's because CHS has incorporated a strict quality assurance program and is ISO 9001:2008-certified at all three blending plants.

CHS Lubricants technical services has one of the best-in-the-business staff with over 100 years of combined petroleum industry experience. The technical services staff is always ready to help you – whether it's a question about changes in the industry, proper fluids for application, equipment performance concerns, or a request for a specially blended lubricant. You can expect the special attention that comes from doing business with technical people who are committed to going above and beyond your expectations. And the value, efficiency and innovation that comes from doing business with a leader.



Introducing **Cenex® Sure Seal WL Wireline Grease**

Corrosive elements are an ongoing challenge in wireline operations. Downhole tools and equipment can perform only as well as your lubricants do. That's why we formulate Cenex® lubricants to provide superior protection and corrosion inhibition. Using only the highest quality base oils and a highly specialized additive system, they lubricate, seal and protect wirelines and prevent excess slingage.



Slingage Photo Caption

Wireline Applications

Cenex Sure Seal WL - Wireline Lubricant								
	Winter Grade -A		Mid-Season Grades - D			Summer Grades - G		
ISO Grade	ISO 68	ISO 220	ISO 680	ISO 1500	ISO 2500	ISO 5000	ISO 7500	ISO 10000
ISO Grade	68	220	680	1500	2500	5000	7500	10000
API Gravity	34.1	34.1	34.2	34.2	34.2	34.2	34.2	34.2
Lbs/Gal	7.12	7.12	7.11	7.11	7.11	7.11	7.11	7.11
Color	Water White	Water White	Water White	Water White	Water White	Water White	Water White	Water White
Appearance	Clear and Bright	Clear and Bright	Clear and Bright	Clear and Bright	Clear and Bright	Clear and Bright	Clear and Bright	Clear and Bright
Texture	Tacky Liquid	Tacky Liquid	Tacky Liquid	Tacky Liquid	Tacky Liquid	Tacky Liquid	Tacky Liquid	Tacky Liquid
100°C Viscosity Cst	12	33	87	162	236	468	691	1003
100°C Viscosity SSU	68	175	465	812	1180	2314	3337	4618
40°C Viscosity Cst	69	219	701	1590	2500	5085	7626	10035
40°C Viscosity SSU	316	996	3185	7225	11600	23107	34653	45599
Viscosity Index	175	196	213	220	235	269	292	327
Pour Point °C/°F	-42/-44	-39/-38	-39/-38	-36/-33	-33/-27	-33/-27	-24/-11	-24/-11
Operating Temperature Range (°F)	-25 to 15	-10 to 30	20-70	25-90	30-100	50+	65+	70+



Product Support for Wireline Applications



Products from left to right

Maxtron® DEO

Synthetic Blend Diesel Engine Oil

Superlube® TMS®

Heavy-Duty Diesel Engine Oil

MP Gear Lube

Extreme Pressure Gear Lubricant

Maxtron® GL

Full Synthetic Gear Lubricant

Power Transmission Fluid

Specially Formulated for CAT TO-4 and Allison C-4 Specifications

Maxtron® All-Syn Heavy-Duty ATF

Full Synthetic Heavy-Duty Automatic Transmission Fluid

Auto Gold® ATF DM

Automatic Transmission Fluid

Indol

Premium Antiwear Hydraulic Oil

Grease Products

Superior Performance, Multi-Purpose Greases



Drilling Applications

You can't control the tough demands and challenging environments you face in drilling. But one thing you can control is how you maintain your equipment. Cenex® lubricants stand the test of time with over 75 years of field-proven performance. They keep your engines and hydraulics running smoothly, and provide superior protection for over-worked, load-bearing rigs.



Products from left to right

Maxtron® DEO

Synthetic Blend Diesel Engine Oil

Maxtron® GL

Full Synthetic Gear Lubricant

Superlube® TMS®

Heavy-Duty Diesel Engine Oil

MP Gear Lube

Extreme Pressure Gear Lubricant

Indol

Premium Antiwear Hydraulic Oil

Indol MV

Multi-Viscosity Formulated
Premium Antiwear Hydraulic Oil

Grease Products

Superior Performance, Multi-Purpose
Greases

Products to Support All Your Production Needs

The extraction of oil and gas is a tough business. But battling dust, brutal conditions and long, grueling hours is nothing new for lubricants with a 75-year legacy of performance. Industry certified with years of proven oilfield execution, Cenex® lubricants help optimize production, providing reliable protection and better overall performance for artificial-lift systems of all types.



Products from left to right

Maxtron® Enviro-Edge®

Full Synthetic Diesel Engine Oil

Maxtron® DEO

Synthetic Blend Diesel Engine Oil

Superlube® TMS®

Heavy-Duty Diesel Engine Oil

MP Gear Lube

Extreme Pressure Gear Lubricant

Maxtron® GL

Full Synthetic Gear Lubricant

Maxtron® All-Syn Heavy-Duty ATF

Full Synthetic Heavy-Duty Automatic Transmission Fluid

Indol

Premium Antiwear Hydraulic Oil

Maxtron® MT

Full Synthetic Manual Transmission Lubricant

Grease Products

Superior Performance, Multi-Purpose Greases

Natural Gas Engine Oils (NGEO)

Specially formulated for your 2-stroke and 4-stroke engines, including low, mid and ashless engines and natural gas engines.

NGEO 2000 LA

Premium Low Ash Oil for Natural Gas Engines

NGEO 2500 MA

Premium Mid-Ash Oil for Natural Gas Engines, Biogas and Landfill

NGEO 3000 NA

Premium Ashless Oil for Natural Gas Engines

Our Line of Engine Oils to Support Your Operation

Each of our Cenex® Engine Oils have been specifically formulated to properly lubricate, protect, and extend the life of a wide variety of engine types. Plus, we feature several synthetic and full synthetic blends.



SYNTHETIC

Maxtron® Enviro-Edge® Full Synthetic Diesel Engine Oil

Maxtron Enviro-Edge 5W-40 is our most advanced full synthetic diesel engine oil. It is engineered for fuel economy and wide temperature range performance.

- Provides up to 1.2% improved fuel economy
- Has a high TBN
- Wear Saver® Technology



**SYNTHETIC
BLEND**

Maxtron® DEO Synthetic Blend Diesel Engine Oil

Maxtron DEO is an advanced synthetic blend diesel engine oil engineered to protect all 2007 model year low emission engines and their exhaust after treatment systems.

- Reduces soot, deposits and oil consumption
- Has a high TBN
- Wear Saver® Technology



SYNTHETIC

Maxtron® Full Synthetic Gasoline Engine Oil

Maxtron is a full synthetic that provides excellent performance in all automotive gasoline engines.

- API Certified
- Reduces “burn-off” and limits oil consumption



Superlube® TMS® Diesel Engine Oil

Superlube TMS contains a new formulation engineered for 2007 model year and newer diesel engines with advance emission control systems.

- Protects catalyst, filters, and other emission components
- Proven reduction of deposits and oil consumption
- Viscosity retention and shear resistance



Superlube® 518® Diesel Engine Oil

Superlube 518 is a time proven straight grade engine lubricant designed for diesel engines operating under severe service conditions.

- Improves oil circulation; reduces deposits
- Reduces engine wear during cold start-ups
- Provides superior wear protection



Irriflex® Low Ash Oils for Stationary Natural Gas or LP Irrigation Engines

Irriflex Stationary Irrigation oils are a low ash, high quality oil specially formulated for use in natural gas and LP engines where a low amount of metallic ash forming components are critical.

- Oxidation inhibitors and detergents control deposits, minimize maintenance and maximize engine life
- Can be used in mobile or stationary applications with various fuels

Additional Products

NGEO 2000 LA

Premium Low Ash Oil for Natural Gas Engines

NGEO 2000 LA engine oils are specially formulated for use in 4-stroke stationary natural gas engines.

- Control deposits with oxidation inhibitors
- Compatible with units using catalytic converters
- Helps neutralize acids with detergents
- Reduces ring and liner wear

NGEO 2500 MA

Premium Mid-Ash Oil for Natural Gas Engines, Biogas and Landfill

NGEO 2500 MA engine oils are specially formulated for use in 4-stroke stationary engines where the manufacturer calls for a mid-ash oil or in biogas and landfill gas engines where additional detergent and TBN are desirable.

- Controls oil thickening with oxidation inhibitors
- Maximizes oil life and oil drains

NGEO 3000 NA

Premium Ashless Oil for Natural Gas Engines

NGEO 3000 NA engine oils are specially formulated for all 2-stroke engines.

- Blended with high quality paraffinic base oil
- Special non-zinc technology reduces wear, protecting highly loaded engine parts

Railroad Diesel Engine Oil

Railroad Diesel Engine Oil is an optimized formulation that will satisfy EPA emission requirements and the engine needs of lower sulfur fuels and emission control systems for both new and older locomotive engines.

- Meets GE and EMD 2008 oil specifications
- Excellent wear, deposit, stability, and oxidation control
- Strong TBN retention



Our Line of Transmission Fluids to Support Your Operation

The superior frictional characteristics and material compatibility of Cenex® transmission fluids ensure quality and consistent performance in shifting, brake operation and wear protection in all types of transmissions. We rigorously test our lubricants to meet and exceed the demands of heavy-duty applications, so you know your equipment is protected.



SYNTHETIC

Maxtron® MT **Full Synthetic Manual Transmission Lubricant**

Maxtron MT is a full synthetic manual transmission lubricant specially formulated for extended drain and severe service in heavy-duty transmissions.

- Extended OEM Warranty and drain
- Improved fuel economy



Power Transmission Fluid

Power Transmission Fluid is a heavy-duty transmission fluid that is specially formulated to meet the Caterpillar TO-4 and Allison C-4 specifications, required for use in their power shift transmissions.

- Provides protection against wear and corrosion
- Approved against OEM specifications



SYNTHETIC

Maxtron® All-Syn Heavy-Duty ATF **Full Synthetic Heavy-Duty Automatic Transmission Fluid**

Maxtron All-Syn HD ATF is a specially designed ATF fluid for maximum protection in heavy-duty automatic and power shift transmissions for trucks, buses and other commercial equipment.

- Provides smooth shifting and excellent fuel economy
- Reduces leaks and foaming tendencies



Our Line of Gear Oils/Hydraulic Oils to Support Your Operation

Cenex® hydraulic oils and gear oils extend a variety of applications, and offer an exceptional list of features to benefit even the most complicated hydraulic systems. They're all designed to provide extreme protection against wear, rust, corrosion, temperature fluctuations, foam and oxidation to improve equipment performance and life.



SYNTHETIC

Maxtron® GL **Full Synthetic Gear Lubricant**

This fully synthetic based gear lubricant is specially formulated for extended drain and severe service in heavy-duty, extreme pressure applications.

- Provides quicker lubrication and smooth gear operation in cold weather
- Demonstrates fuel economy benefits when used in conjunction with Maxtron MT 50



MP Gear Lube **Extreme Pressure Gear Lubricant**

MP Gear Lube is an extreme pressure gear lubricant for use in the majority of gear cases. It is designed to meet the widest range of needs in off-highway and on-highway vehicles, including trucking, agricultural, construction and industrial equipment.

- Resists oxidation and improves oil durability
- Assures protection of gear box materials from contamination



SYNTHETIC

Maxtron® R&O **Full Synthetic, R&O Gear, Circulating, and Bearing Lubricant**

Maxtron SHC Lubricants comprise a line of full synthetic, R&O gear, circulating and bearing oils designed to provide outstanding equipment protection, oil life, and problem-free operation.

- Protects equipment at low and high temperature extremes
- Provides superior wear protection



AGMA/EP **Industrial Extreme Pressure Gear and Rock Drill Oil**

AGMA/EP Gear Oil lubricants are specially formulated for heavy-duty industrial gear sets as specified by the American Gear Manufacturers Association (AGMA).

- Enhanced oxidative and thermal stability for longer fluid life
- Superior rust and corrosion prevention

Continued >>



Gear Oils/Hydraulic Oils *continued*



Indol **Premium Antiwear Hydraulic Oil**

Indol Premium Antiwear Hydraulic Oil is our exceptional quality zinc containing antiwear hydraulic oil.

- Minimizes wear in high speed, high pressure vane and gear pumps
- Highly stable under thermal stress



Econex **Non-Detergent Antiwear Lubricating Oil**

Econex Non-Detergent Antiwear Lubricating Oil is formulated with a low-zinc antiwear (AW) additive.

- Provides good antiwear capabilities



Hydrostatic Fluid 46 MV **Premium Hydrostatic Fluid/Antiwear Hydraulic Oil**

Hydrostatic Fluid 46 MV is designed to meet the performance requirements of most hydrostatic and hydraulic pump manufacturers.

Additional Products

Power Steering Fluid **Premium Performance**

Premium Performance Power Steering Fluid is formulated with high quality base oils and a balanced additive package.

Turbine Oil XL **Premium Turbine Oil**

Turbine Oil XL is a premium quality zinc-free rust and oxidation (R&O) inhibited turbine oil.

Aluben EP Moly Grease **Multipurpose Aluminum Complex Grease**

Aluben EP Moly is a top-quality aluminum complex thickened grease with molybdenum disulfide ("moly") and a premium additive system combined to give outstanding performance in a broad range of operating conditions.

- Offers excellent water resistance for wet applications
- Ability to withstand high loads and high shock loading
- Excellent high temperature performance



Our Line of Grease Products to Support Your Operation

You know that proper lubrication and maintenance will keep your equipment running smooth. But did you know that using quality Cenex® grease products can also improve your bottom line? That's because Cenex premium greases help extend the life of your equipment — reducing costly downtime and repair expenses. With Cenex greases, you can expect top performance under the most extreme conditions.



HD Moly Xtreme Extreme Duty Grease

HD Moly Xtreme is extreme duty grease developed and recommended for off-highway construction and mining equipment. Produced with specially selected base oil combined with a modern calcium complex thickener, It works well in high temperature, high moisture environments.

- Contains 5% Molybdenum Disulfide
- Drop point of 550°F
- Environmentally friendly



Poly-Xtreme™ High Temperature Polyurea Grease

Poly-Xtreme™ is advanced technology poly-urea based grease. Poly-Xtreme is compatible with other poly-urea grease enabling its use in many applications.

- High dropping point (500°F)
- Water wash-out resistant
- EP performance
- Rust and corrosion protection



Maxtron® EP Synthetic Blend Lithium Complex Grease

Maxtron EP is an extreme duty, semisynthetic multipurpose grease recommended for automotive, industrial, farm and oilfield use.

- Contains 3% Molybdenum Disulfide
- Has a high dropping point of over 500°F



Blue Gard 500+ Premium Multipurpose High Temperature Grease

Blue Gard 500+ is a premium heavy-duty, multipurpose grease recommended for automotive, industrial, farm and oilfield use.

- Excellent extreme pressure performance
- Enhanced oxidative and thermal stability
- Ability to handle high temperatures
- Excellent seal compatibility



Molyplex 500+ Premium Multipurpose High Temperature Grease

Molyplex 500+ is a premium heavy-duty, multipurpose grease recommended for automotive, industrial, farm and oilfield use. Molyplex 500+ qualifies for the highest performance level of automotive chassis and wheel-bearing grease, GC-LB.

- Contains Molybdenum Disulfide
- Has a high dropping point of over 500°F
- Assures excellent seal compatibility



ML 365® Multipurpose All Season Grease

ML 365 is a high quality multipurpose type grease available in NLGI grades 2, 1, 0 and 00. This product is recommended for agriculture, automotive, construction, industrial and oilfield environments.

- Provides excellent cold temperature performance
- Withstands heavy shock loading
- Resists water washout

LubeScan®

LubeScan® oil analysis is a premium lubricant analysis program. LubeScan reports on 25 individual components to completely test and identify wear, lubricant conditions and overall operating conditions.



Regular LubeScan oil analysis of engine transmissions and other equipment components is a critical part of any

equipment maintenance program. It helps to catch potential problems early on, and prevent expensive repairs and downtime. When abnormal conditions are found, the report identifies the critical areas for future testing or equipment maintenance. For added convenience and reference, you can access your LubeScan reports online.

Benefits of LubeScan:

- Aids in diagnosing the condition of oil lubricated equipment
- Helps indicate excess contamination
- Assists in determining optimum drain intervals
- Increases potential resale of tested equipment

Visit cenex.com for information on other Cenex® energy products:

- Refined Fuels
- Propane
- Renewable Fuels
- Petroleum Equipment
- Credit Cards
- Convenience Stores



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