

**MINING**



**Make every  
minute more  
productive**

# LUBRICANTS FOR THE MINING INDUSTRY

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## Unearth Deeper Dependability

Your mining business relies on premium lubricants to help reduce downtime and prevent unscheduled maintenance. Rely on Chevron to help keep profitability piling high—with our extensive lubricants portfolio and vast reserves of industry expertise to help you cut costs, drive production and build a more reliable mining operation.

Rely on Chevron to help you reach the potential to:

- Maximize Engine and Equipment Durability
- Extend Service Protection
- Improve Supplier Performance
- Improve Fuel Efficiency

## Protect your Productivity

When merciless assaults on your equipment are a constant occurrence, even the odds with premium industrial lubricants. Chevron Industrial helps you protect equipment throughout your operation, from the autonomous vehicles, conveyors and elevators deep underground to the processing facility.

### Stay on schedule

We know that mining production targets are highly ambitious. Chevron helps you stay on track with industrial lubricants formulated to support equipment performance despite the dirt, severe loads and harsh elements you face around the clock.



Clarity® Synthetic  
Hydraulic Oil AW

### Achieve maximum durability

Repairing failed equipment at a mine site can be a major undertaking that saps your productivity. Even servicing that equipment with routine maintenance is far from a routine effort. Chevron Industrial lubricants protect critical equipment components to help prevent failures, boost durability and maximize service life. We also engineer durability into the lubricants themselves, to help you extend drain intervals and reduce the need for maintenance stops.

## Programs

### ISOCLEAN® Certified Lubricants

Industrial equipment manufacturers require specific lubricant cleanliness levels to maximize component life and productivity. Chevron has designed a revolutionary approach to meeting these requirements – the ISOCLEAN Certified Lubricants Program. The program gets your operation off to a clean start by providing lubricants certified to meet OEM performance and cleanliness requirements at the point of delivery, which helps save capital and labor costs for pre-filtering. Beyond the initial fill, we also can provide targeted monitoring and in-plant services to help you maintain OEM cleanliness standards, day after challenging day, over the long term.

Particle contamination is the number one cause of lubricant related wear in equipment components. Starting with a lubricant that is certified to meet the equipment manufacturer's fluid cleanliness requirement is the vital first step in maximizing equipment component service life.

Chevron ISOCLEAN Certified Lubricants have been engineered to meet the required ISO Cleanliness fluid requirements at the point of delivery to minimize the challenges with on-site filtration.

Chevron's network of ISOCLEAN Certified Lubricant providers ensures target ISO Cleanliness codes are on specification at point of delivery as well as provides solutions for on-site management of fluid cleanliness.

### LubeWatch® Fluid Analysis

Using LubeWatch is like opening a window into the health of your equipment. The lubricants in your systems hold many clues about conditions that could cause premature wear, shortened oil life and even potential failures. LubeWatch Fluid Analysis allows you to monitor, detect and correct these issues. Continuous monitoring first helps you verify whether you're getting maximum protective benefit from your lubricants. Second, it helps you proactively design your maintenance program to optimize drain intervals, maximize uptime, extend equipment life and ultimately reduce costs.

**Chevron offers a wide range of ISOCLEAN Certified Lubricants.**



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# PRODUCTS

ENGINE OILS	GRADES	TRANSMISSION FLUIDS	GRADES
<b>Delo 600 ADF</b>  Recommended for on- and off-highway Tier IV Final emission compliant engine applications where an API CK-4 service category is recommended. It is formulated for engines with Selective Catalytic Reduction (SCR), Diesel Particulate Filter (DPF) and Exhaust Gas Recirculation (EGR) systems.	SAE 10W-30, 15W-40	<b>Delo Syn-Trans HD</b> A heavy-duty truck manual transmission fluid recommended for service fill of heavy duty manual transmissions, such as those manufactured by Eaton, Meritor and Mack.	SAE 50
<b>Delo® 400 XSP</b>  A premium synthetic long drain and mixed fleet engine oil recommended for naturally aspirated and turbocharged four-stroke diesel engines and four-stroke gasoline engines in which the API CK-4 or SN service category is recommended.	SAE 15W-40, 5W-30, 5W-40	<b>Delo TorqForce™</b>  Designed for use in transmissions, final drives and hydraulic systems. Meets requirements of Allison C-4 and Caterpillar TO-4. Recommended for Dana Powershift, Komatsu KES 07.868.1 and Komatsu Dresser.	SAE 10W, 30, 50, 60
<b>Delo 400 XLE</b>  A premium synthetic blend mixed fleet engine oil recommended for naturally aspirated and turbocharged four-stroke diesel engines and four-stroke gasoline engines in which the API CK-4 or SN service category and SAE 10W-30 viscosity grade is recommended.	SAE 10W-30	<b>Delo TorqForce Syn</b>  Designed for use in transmissions, wet brakes and hydraulic systems. Meets Caterpillar TO-4 and Allison C-4 requirements. Recommended for Dana Powershift, Komatsu KES 07.868.1 and Komatsu Dresser.	SAE 5W-30
<b>Delo 400 XLE SB</b>  A premium synthetic blend mixed fleet engine oil recommended for naturally aspirated and turbocharged four-stroke diesel engines and fourstroke gasoline engines in which the API CK-4, or API SN service category and SAE 15W-40 viscosity grade are recommended.	SAE 15W-40	<b>Delo TorqForce MP</b>  Designed for use in transmissions, wet brakes and hydraulic systems. Meets requirements of Allison C-4 and Caterpillar TO-4 and TO-4M. Recommended for Dana Powershift, Komatsu KES 07.868.1 and Komatsu Dresser.	
		<b>Delo TorqForce FD</b>  (Formerly Chevron Final Drive SAE 60) Formulated with special anti-wear compounds to protect gears and bearings of final drive and axle compartments from various modes of failure, while maintaining full-metal and seal compatibility. Designed to provide excellent lubrication performance for differential and final drives that do not contain friction materials.	SAE 60



 Available as ISOCLEAN® Certified Lubricants to meet specific OEM ISO Cleanliness specifications.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

HYDRAULIC OILS	GRADES
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<p><b>Clarity® EliteSyn™ AW</b> </p> <p>Premium high-performance ashless antiwear hydraulic fluids designed to meet stringent OEM demands. Clarity EliteSyn AW provides maximum protection, reduces varnish, and enhances productivity and efficiency in both mobile and stationary hydraulic equipment. Ideal for industrial applications and environmentally sensitive areas.</p>	ISO 32, 46, 68
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*\*Improved productivity was shown in side-by-side excavator tests of up to 6.2%. Improved fuel efficiency was shown in excavators and in plastic injection machines of up to 4.5% and 5% respectively. Comparisons were to a typical single grade hydraulic oil.*

<p><b>Clarity AW</b> </p> <p>High-performance ashless antiwear hydraulic fluids designed to meet or exceed conventional performance, especially in severe, high-output applications. Clarity AW provides optimal protection, helps prevent varnish formation, and is ideal for pressures exceeding 5000 psi in both mobile and stationary hydraulic equipment.</p>	ISO 32, 46, 68
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<p><b>Rando® HDZ</b> </p> <p>Premium AW hydraulic oils formulated with premium base oil technology designed for excellent protection while providing some energy efficiency relative to traditional hydraulic oils.</p>	ISO 15, 22, 32, 46, 68, 100
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<p><b>Rando HD</b> </p> <p>Designed to give robust protection to hydraulic pumps in mobile and stationary equipment.</p>	ISO 10, 22, 32, 46, 68
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<p>ISO 100, 150, or 220 are often recommended for hydraulic equipment reduction gears where EP is not required, reciprocating air compressors, plain and anti-friction bearings, and circulating oil systems.</p>	ISO 100, 150, 220
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 Available as ISOCLEAN® Certified Lubricants to meet specific OEM ISO Cleanliness specifications.

INDUSTRIAL GEAR LUBRICANTS	GRADES
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<p><b>Meropa EliteSyn™ XM</b> </p> <p>High performance synthetic gear oils, offering maximum efficiency, reduced operating temperatures, long lubricant life and robust micropitting wear protection.</p>	ISO 150, 220, 320, 460, 680
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<p><b>Meropa XL</b> </p> <p>Synthetic blend, premium industrial gear oil with excellent micropitting wear protection, demulsibility, seal and paint compatibility as required by its Siemens MD (FLENDER) Revision 13 approval.</p>	ISO 150, 220, 320, 460
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<p><b>Meropa</b> </p> <p>Premium quality extreme pressure gear oils with excellent load carrying capacity, water demulsibility, oxidation stability and corrosion protection.</p>	ISO 68, 100, 150, 220, 320, 460, 680, 1000, 1500
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HEAVY DUTY AUTOMOTIVE GEAR LUBRICANTS	GRADES
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<p><b>Delo® Syn-Gear HD</b> </p> <p>For rear axles and differentials in over-the-road and off-road vehicles when operating under severe conditions and extreme environments where API SAE J2360, GL-5 or MT-1 oil is recommended.</p>	SAE 75W-90
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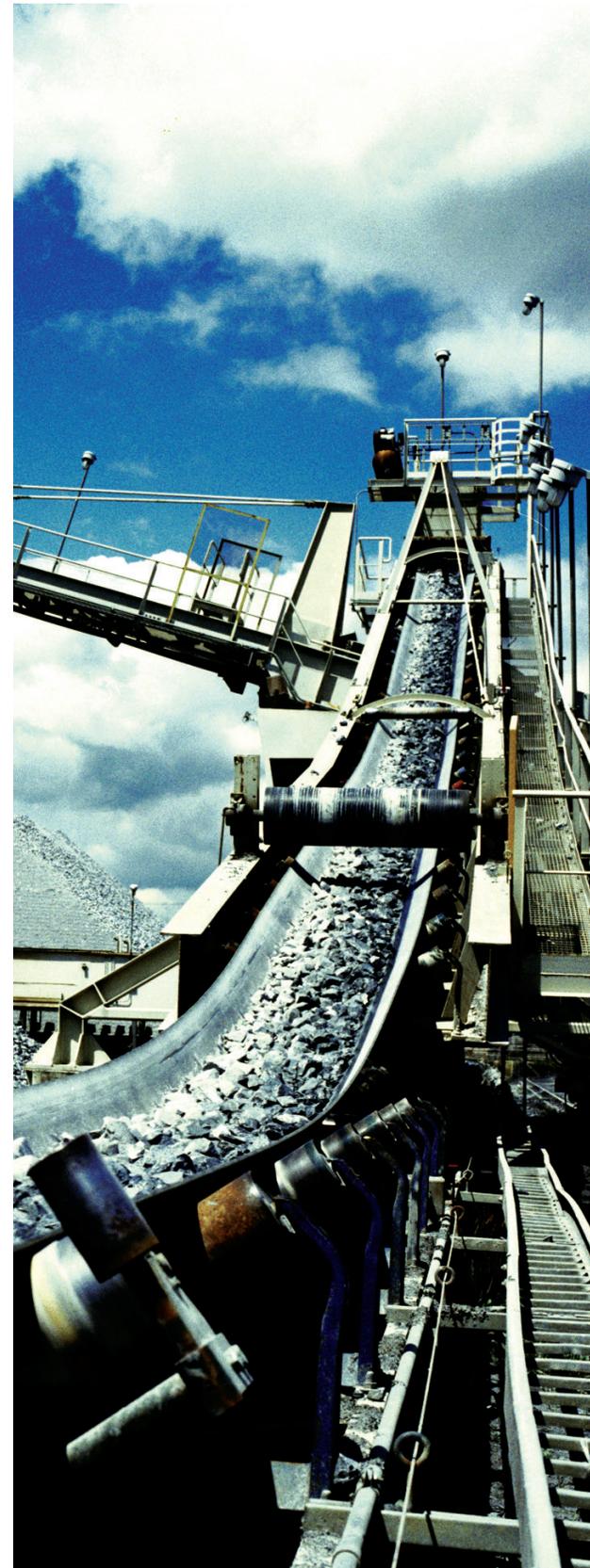
<p><b>Delo® Gear EP-5</b> </p> <p>Delo Gear EP-5 gear lubricants are recommended for use in spiral bevel and hypoid differentials, power dividers, and oil-lubricated steering axle wheel bearings.</p>	SAE 80W-90, 85W-140
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# PRODUCTS

COMPRESSOR OILS	GRADES
<b>Cetus® HiPerSYN®</b>  Synthetic compressor oils (not to be mixed with PAG) recommended for air compressors; especially portable and stationary rotary, vane and screw compressors.	ISO 32, 46, 68, 100, 150, 220, 320, 460
<b>Regal® R&amp;O</b> For most compressors where OEM requires an R&O type circulating oil.	ISO 22, 32, 46, 68, 100, 220, 320, 460, 680
COOLANTS	CONCENTRATION
<b>Delo® ELC Advanced Antifreeze/Coolant</b> For use in a wide variety of cooling system applications. They do not require the addition of supplemental coolant additives to obtain their service life of 1,000,000 miles / 1,600,000 km / 20,000 hours, or 8 years, when properly maintained.	Concentrate Premixed 50/50
<b>Delo ELC Antifreeze/Coolant</b> For use in a wide variety of cooling system applications that require nitrite, including on-road, off-road and stationary engine applications.	Concentrate Premixed 50/50 Premixed 60/40
<b>Delo XLC Antifreeze/Coolant</b> For use in a wide variety of cooling system applications that require a nitrite-free product, including on-road, off-road and stationary engine applications.	Concentrate Premixed 50/50



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GREASES	GRADES
<b>Rykon® EP</b> A multipurpose product which works in many applications and provides good protection from wear, shock loading, and corrosion	NLGI 2
<b>Rykon HD</b> <b>Rykon HD M5</b> For demanding applications in wet environments, with a heavier viscosity that can provide better protection for higher loads and slower speeds.	NLGI 2
<b>Starplex® Syn EP M5</b> For demanding off-road construction applications with excellent performance throughout a wide temperature range, especially where very cold climates are encountered.	NLGI 1
<b>Starplex HD</b> <b>Starplex HD M3</b> <b>Starplex HD M5</b> For use in a wide variety of off-road construction applications, including all types of heavy-duty earth moving machinery.	NLGI 1, 2
<b>Starplex EP</b> Water resistant, extreme pressure, heavy duty chassis and wheel bearing greases.	NLGI 00, 0, 1, 2
<b>Ultra-Duty HD</b> Versatile, high pressure greases with good adhesive properties designed for a wide variety of automotive and industrial applications.	NLGI 0, 1, 2
<b>Multifak® EP</b> General-purpose EP grease for use in automotive and industrial equipment under most conditions, except where very high operating temperatures are encountered.	NLGI 0, 1, 2
<b>Starplex Syn HD</b> For extreme pressure bearing applications operating under high and low temperatures.	NLGI 1.5



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