

# **CONSTRUCTION INDUSTRY**

# **Build Greater Reliability**

Construction jobs are dirty, exposed, often remote and on the move. Chevron Industrial Lubricants help you meet these challenges head on. We engineer our lubricants to take the same abuse your equipment does. They help boost reliability across your fleet, so you can work longer and faster without overloading your equipment, and keep your critical project timelines on track.

Rely on Chevron to help you reach the potential to:

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



Delo® TorgForce®

# **Protect your Productivity**

Harsh conditions can cause equipment breakdowns, project delays and budget overages. We help you fight back. Chevron products maintain integrity when equipment is working its hardest and internal temperatures rise. They also help protect critical components from extreme ambient temperatures, so you can keep projects moving forward through freezing winters and scorching summers.

#### Extend oil life and drain intervals

Construction operations have multiple equipment types constantly working and moving locations. Performing maintenance in this environment is a difficult undertaking. Chevron can help. Our lubricants are formulated to last, allowing you to extend drain intervals, coordinate scheduled downtime activities, and minimize field visits from maintenance crews.

## Streamline maintenance logistics

If you're trucking lubricants out to various worksites, we can help you simplify. Our experts can perform an assessment to make sure you're carrying the right lubricants and viscosities for your range of equipment. A streamlined inventory helps you stock supply trucks

more efficiently and make fewer trips.

## **Programs**

### ISOCLEAN® Certified Lubricants

Original 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® Oil 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 Oil 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.





#### **PRODUCTS**

#### **ENGINE OILS GRADES** Delo® 600 ADF SAE 10W-30, Recommended for on- and off-highway 15W-40 Tier IV Final emission compliant engine applications, in which 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. Delo® 400 XSP SAE 15W-40, 5W-30, 5W-40 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. Delo 400 XLE **SAE 10W-30** 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

Delo 400 XLE SB

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.

CK-4 or SN service category and SAE 10W-30

viscosity grade is recommended.

#### TRANSMISSION FLUIDS **GRADES** SAE 50 **Delo Syn-Trans HD** 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. Delo TorqForce® SAE 10W, 30, 50,60 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. Delo TorgForce Syn **SAE 5W-30** 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. Delo TorqForce MP 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. Delo TorqForce FD SAE 60 (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 15W-40

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                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Clarity® EliteSyn™ AW  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.  *Improved productivity was shown in side-by-st tests of up to 6.2%. Improved fuel efficiency was excavators and in plastic injection machines of and 5% respectively. Comparisons were to a tygrade hydraulic oil. | as shown in<br>fup to 4.5%     |
| Clarity AW 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.                                                                                                                                                                                                                                        | ISO 32, 46, 68                 |
| Rando® HDZ  Premium AW hydraulic oils formulated with premium base oil technology designed for excellent protection while providing some energy efficiency relative to traditional hydraulic oils.                                                                                                                                                                                                                                                                                                                                                                                  | ISO 15, 22, 32,<br>46, 68, 100 |
| Rando HD  Designed to give robust protection to hydraulic pumps in mobile and stationary equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ISO 10, 22, 32,<br>46, 68      |
| 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.                                                                                                                                                                                                                                                                                                                                                                          | ISO 100, 150,<br>220           |



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

| INDUSTRIAL GEAR LUBRICANTS                                                                                                                                                                                     | GRADES                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Meropa® EliteSyn™ XM  High performance synthetic gear oils, offering maximum efficiency, reduced operating temperatures, long lubricant life and robust micropitting wear protection.                          | ISO 150, 220,<br>320, 460, 680                            |
| Meropa XL  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. | ISO 150, 220,<br>320, 460                                 |
| Meropa Premium quality extreme pressure gear oils with excellent load carrying capacity, water demulsibility, oxidation stability and corrosion protection.                                                    | ISO 68, 100,<br>150, 220, 320,<br>460, 680, 1000,<br>1500 |

| HEAVY DUTY AUTOMOTIVE<br>GEAR LUBRICANTS                                                                                                                                                                         | GRADES             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Delo® Gear EP-5  Delo Gear EP-5 gear lubricants are recommended for use in spiral bevel and hypoid differentials, power dividers, and oillubricated steering axle wheel bearings.                                | 80W-90,<br>85W-140 |
| Delo Syn-Gear HD  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. | SAE 75W-90         |

| COMPRESSOR OILS                                                                                                                                                               | GRADES                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Cetus® HiPerSYN® 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,<br>100, 150, 220,<br>320, 460     |
| Regal® R&O For most compressors where OEM requires an R&O type circulating oil.                                                                                               | ISO 22, 32, 46,<br>68, 100, 220,<br>320, 460, 680 |

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.

### **PRODUCTS**

| CONCENTRATION                                   |
|-------------------------------------------------|
| Concentrate<br>Premixed 50/50                   |
| Concentrate<br>Premixed 50/50<br>Premixed 60/40 |
| Concentrate<br>Premixed 50/50                   |
|                                                 |



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

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.







