

# Delo<sup>®</sup> TorqForce Family of Products



**Delo<sup>®</sup>**  
**Let's go further.<sup>®</sup>**

# Let's Go Further with Delo® TorqForce Products.

When your heavy-duty equipment is working, your business is driving profits. At Chevron, our goal is to optimize your heavy off-road equipment component performance — helping to minimize operating costs and maximize equipment uptime & reliability.

As your lubrication partner, Chevron Products Company, a division of Chevron U.S.A. Inc, strives to help keep your off-road heavy equipment running reliably and efficiently in all kinds of operating conditions, including cold weather or extreme oil-drain intervals.

We understand the challenges facing off-road heavy equipment customers today and in the future:

- New advanced off-road transmissions, hydraulics and axles
- Providing ease of start-up and productivity performance
- Improving fluid and system cleanliness
- Extending oil drain intervals
- Increasing equipment and component reliability

Count on Chevron's industry experience, technology leadership and the Delo TorqForce family of premium products to help you stay ahead of these challenges and protect the life of your heavy-duty off-road vehicle components.



Pail label is an illustration only



## Reliability & Durability Are Our Priority.

Chevron lubricants stand for one thing above all else: reliability. Properly lubricating heavy-duty hydraulics, transmissions and differentials requires more than just creating a protective film. Chevron's advanced Delo TorqForce formulas provide very good oxidation and sludge resistance, excellent fluid cleanliness filtration performance and superb wear control to protect against loss of component performance and life. Delo TorqForce products have been formulated with ISOSYN® Technology to specifically protect your heavy duty off-road equipment. Delo's industry-leading lubricants have logged countless hours providing superior protection so your equipment can go further.

# Delo® Protects with ISOSYN® Technology.

## The Delo TorqForce difference?

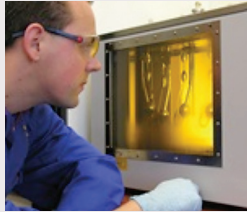
ISOSYN Technology. It helps deliver the protection, performance and reliability you demand to help increase component uptime.

Chevron uses ISOSYN® Technology to formulate its top-tier Delo products. Premium base oils with high-performance additives, combined with our formulation expertise, provide superb protection for off-road hydraulic, transmission and differential parts – at an outstanding value.

### ISOSYN Technology



Premium Base Oils



High Performance Additives



Chevron Formulation Expertise



## Delo with ISOSYN® helps provide:

- Extended service protection
- Maximized equipment durability and life
- Minimized operating costs

### Excellent Customer Reliability

Delo with ISOSYN® Technology protects critical off-road vehicle components to help maximize vehicle life.



# Covering a Wide Range of OEM Requirements

Delo® TorqForce products are formulated to protect critical components in off-road equipment operating under high loads and severe service operating conditions.

They help protect precision parts against wear under high load conditions by controlling the formation of corrosion, varnish and sludge to keep metal parts clean and help prevent premature breakdown. Excellent frictional control helps prevent clutch slippage and offers quiet and efficient action of transmission and brakes while minimizing wear.

Delo TorqForce products are designed for both newly developed and older model drive train components. They exceed most industry and manufacturers' performance requirements:

- Caterpillar TO-4
- Caterpillar TO-4M (Delo TorqForce MP)
- Caterpillar FD-1 (Delo TorqForce FD)
- Dana Powershift
- Komatsu KES 07.868.1
- Komatsu Dresser
- Tremec/TTC
- Vickers 35VQ25
- ZF TE-ML-03C
- Requirements of Allison C-4 (SAE 10W, 30)

**Warranty Plus Protection** — Bumper-to-bumper warranty protection from the engine to the drive train. Payment for Chevron lubricant-related damage to your equipment, including parts and labor. Problem resolution and technical advice from Chevron's lubrication experts.\*



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\*See Warranty Plus for details and restrictions at [www.ChevronDelo.com](http://www.ChevronDelo.com).

# Delo® Protection for Critical Off-Road Equipment Components

Protecting transmissions, hydraulics and differentials is critical to achieving total equipment reliability.

To keep your mining and construction equipment operating at high efficiency takes premium products to help ensure superb protection. Delo transmission and hydraulic products provide long-term performance.

Delo TorqForce fluids are engineered for long life and superb oxidation resistance. They are formulated with special additive chemistry that allows for ultra-fine filtration which provides exceptional fluid cleanliness and equipment reliability performance.

Delo TorqForce fluids offer excellent friction retention, wear control, seal compatibility, oxidation stability and stay-in-grade viscosity performance.

Product	Off-Road Equipment Component Application
Delo TorqForce SAE 10W	Hydraulics
Delo TorqForce SAE 30	Transmission/Hydraulics/ Wet Brakes/Torque Converters
Delo TorqForce SAE 50	Axles & Differentials along with wet brakes/clutches that share a common sump
Delo TorqForce FD SAE 60	Axles & Differentials recommending Caterpillar FD-1 specification
Delo TorqForce MP	Transmission/Hydraulics/ Wet Brakes/Torque Converters
Delo TorqForce Syn SAE 5W-20	Transmission/Hydraulics/ Differentials/Wet Brakes/Torque Converters

### Hydraulic System

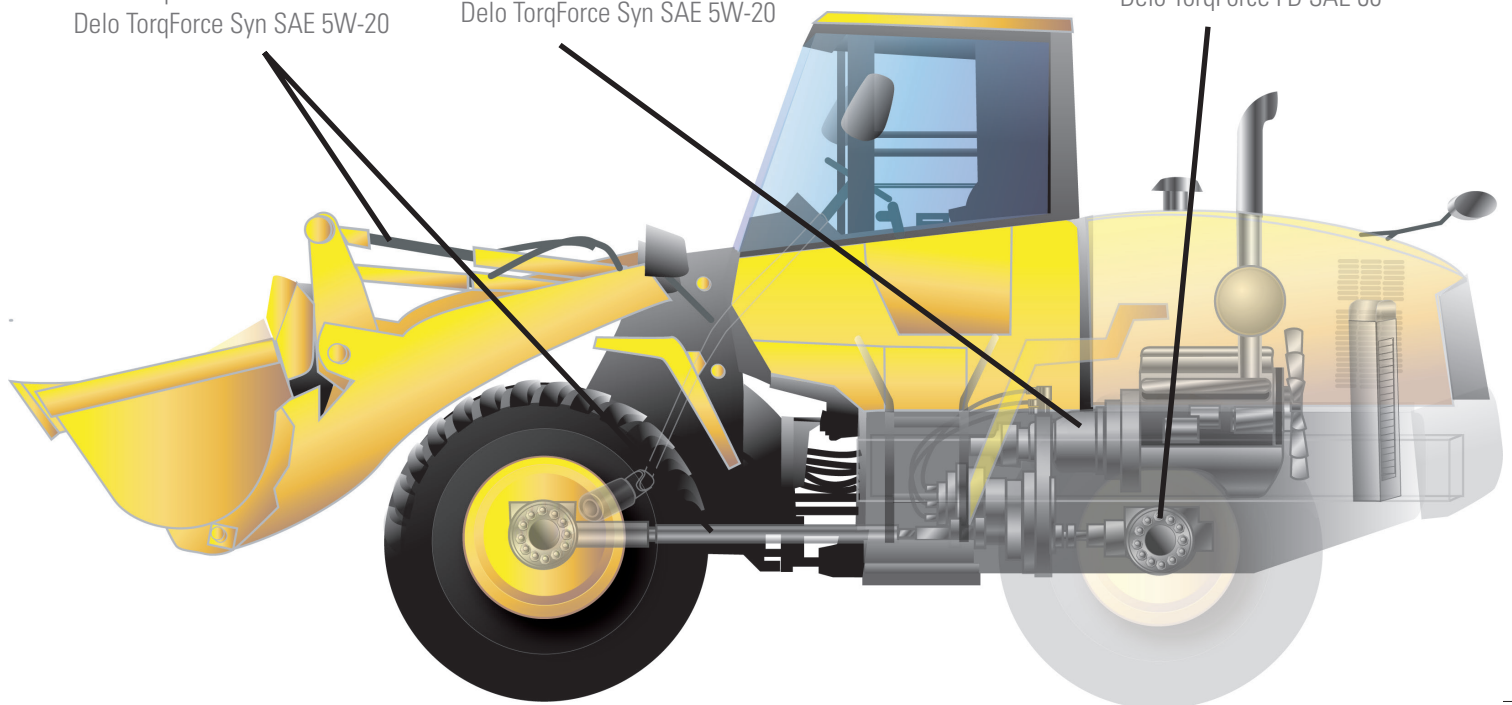
- Delo TorqForce SAE 10W
- Delo TorqForce MP
- Delo TorqForce Syn SAE 5W-20

### Transmission

- Delo TorqForce SAE 30
- Delo TorqForce MP
- Delo TorqForce Syn SAE 5W-20

### Differentials

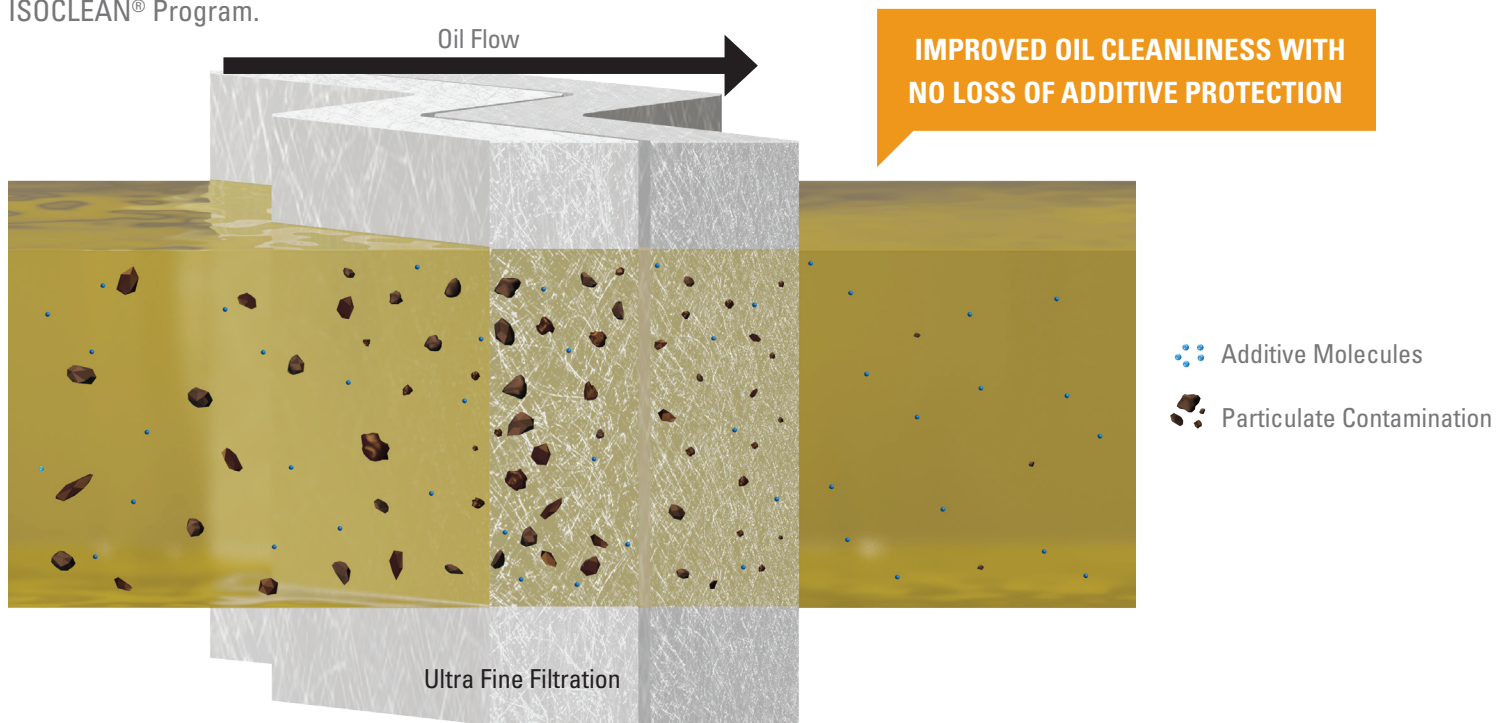
- Delo TorqForce SAE 50
- Delo TorqForce FD SAE 60



# Delo® TorqForce Products Provide Excellent Filterability and Shear Performance.

## Improved Filterability

Delo TorqForce is formulated with special additive chemistry that allows for ultra-fine filtration which provides exceptional fluid cleanliness and equipment reliability performance. Delo TorqForce can achieve cleanliness levels down to 18/16/13 and potentially cleaner with the appropriate Chevron-approved ISOCLEAN® Program.



## Enhanced Shear Stability

Delo TorqForce formulations provide better shear stability against standard TO-4 only products. As shown in the CEC L-45-A-99 KRL Shear (shear stability test) - Delo TorqForce retains its shear stability better than standard TO-4 only products in this test. Shear stability of the fluid is critical in protecting key gears and bearings in transmission and differential components.

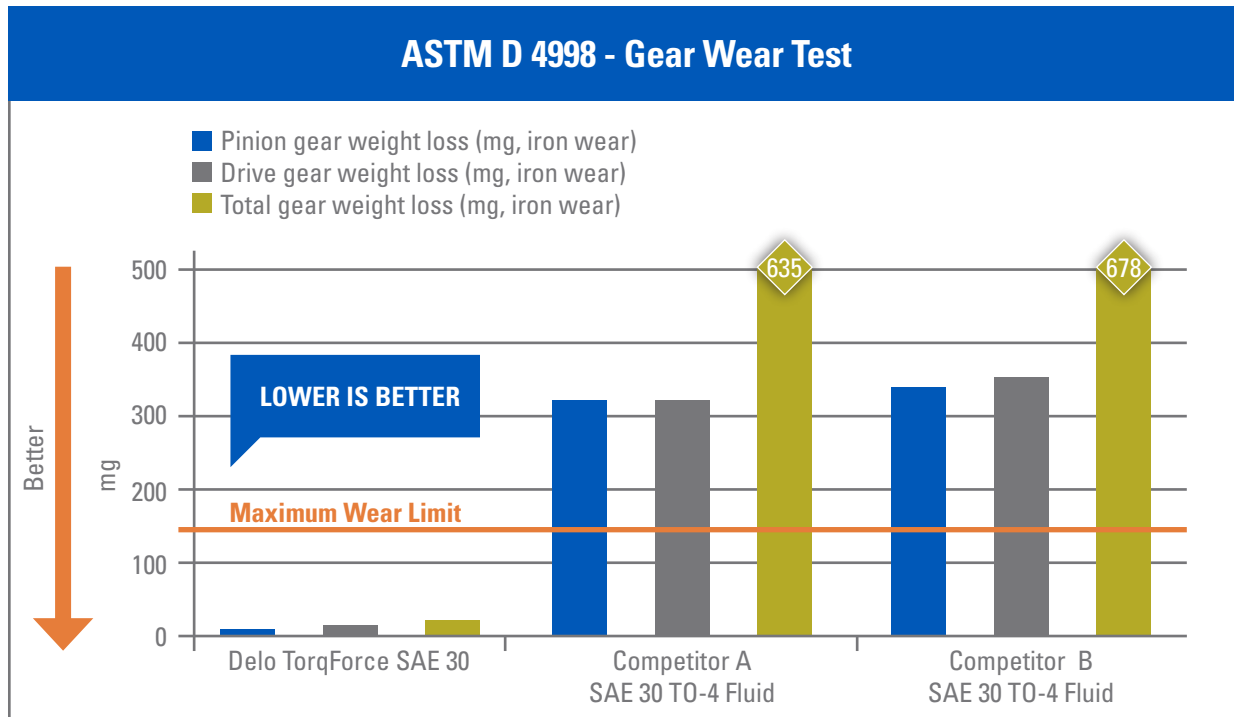
**CEC L-45-A-99 KRL Shear (Shear Stability Test)**

	Delo TorqForce SAE 30	Competitor A SAE 10W TO-4 Fluid	Competitor B SAE 10W TO-4 Fluid
New oil unsheared viscosity	10.82 (cSt)	8.04 (cSt)	6.21 (cSt)
Used oil sheared viscosity	10.62 (cSt)	6.91 (cSt)	5.71 (cSt)
% Viscosity loss from shear	1.80%	14.10%	8.10%

# Delo® TorqForce Products Offer Very Good Wear and Corrosion Protection.

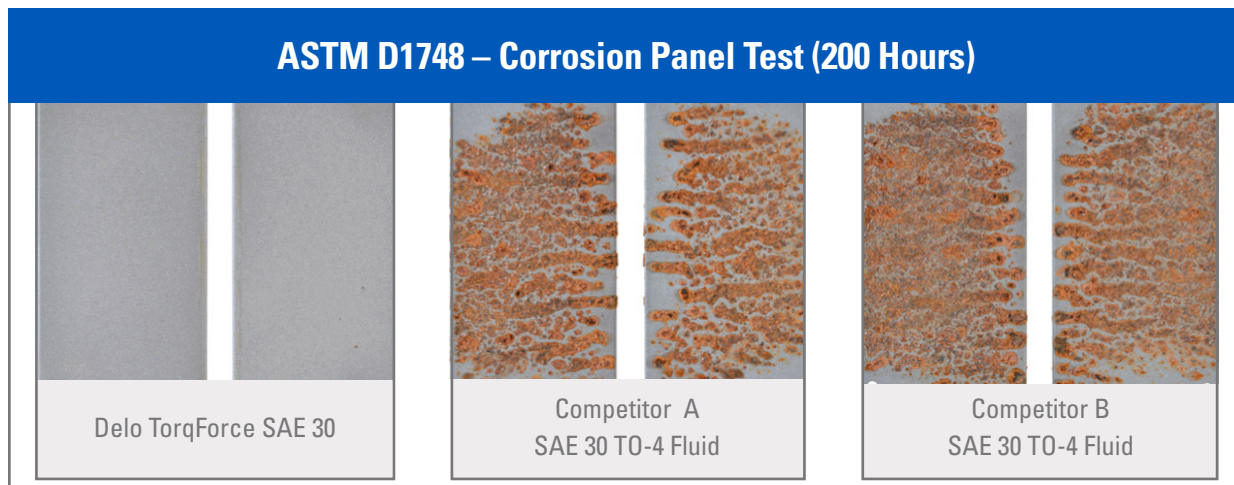
## Excellent Wear Protection

Delo TorqForce formulations can provide improved wear protection over standard TO-4 only products. As show in the ASTM D 4998 gear wear test versus standard formulated TO-4 products – Delo TorqForce can support higher load protection of critical components.



## High Performance Corrosion Protection

Delo TorqForce protects against rust and corrosion of highly finished precision parts when operating in humid conditions and during seasonal shutdown periods. Preventing rust and corrosion helps improve reliability of components and maintains system fluid cleanliness to ensure long equipment life.





**ISOSYN**  
TECHNOLOGY™



[www.ChevronDelo.com](http://www.ChevronDelo.com)

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