

### Product description

**Delo<sup>®</sup> TorqForce** products are high performance lubricants designed for use in transmissions, final drives, and hydraulic systems in Allison, Caterpillar, Dana Powershift, Komatsu, Komatsu Dresser, Tremec /TTC, Eaton, Vickers and ZF equipment.

### Customer benefits and product features

#### Customer benefits

- **Long equipment life**  
Special additives help protect metal surfaces against scuffing and wear even under severe operating conditions of high temperature and high load.
- **Smooth operation**  
Excellent frictional control helps prevent clutch slippage and offers quiet and efficient action of transmission and brakes while helping to minimize wear.
- **Minimal downtime**  
Good compatibility with seals, O-rings, and packing materials helps to maintain their good condition and keep leakage at a minimum.
- **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 appropriate Chevron approved ISOCLEAN<sup>®</sup> Programs.
- **Long oil life**  
Outstanding ability of the base stock to withstand oxidation at high operating temperatures helps maximize service life for the oil.
- **Reliable operation**  
Formulated to keep metal parts clean and free of varnish and sludge deposits that could result in premature breakdown.
- **Minimizing weather and storage concerns**  
Helps protect against rust and corrosion of highly finished precision parts when operating in humid conditions and during seasonal shutdown periods.

#### Product features

- Manufactured using highly refined base oils, detergents, dispersants, oxidation and corrosion inhibitors, antiwear and extreme pressure agents, and a foam suppressant.
- Designed for both newly developed and older model drive train components.
- Offers excellent friction retention, wear control, seal compatibility, oxidation stability, and viscosity stability.
- The frictional characteristics of the fluid are retained over the life of the lubricant.

### Customer benefits and product features *continued*

- Delo TorqForce products are formulated to help protect against wear, even in severe service conditions and under high loads. They help protect precision parts against wear under high load conditions by controlling the formation of corrosion, varnish, and sludge.
- Delo TorqForce products are compatible with new and traditional seal and clutch materials.

### Applications

Delo TorqForce may be used for use in Caterpillar, Komatsu, transmissions, final drives, and wet brakes, and in Allison, Dana Powershift, Tremec/TTC, Eaton and ZF transmissions, torque converters, and Vickers hydraulic systems.

Under normal ambient temperatures, **hydraulic systems will use the SAE 10W** viscosity grade. SAE 10W and 30 are recommended for mobile hydraulic systems where operating requirements are severe.

**Transmissions may use the SAE 30** viscosity grade. Delo TorqForce products may also be used for heavy duty off highway automatic transmissions requiring an SAE 30 fluid.

**Final drives may use the SAE 50** viscosity grade at normal temperatures and the SAE 60 at high ambient temperatures.

In order to meet Caterpillar specifications, Delo TorqForce products are not friction modified. Thus, they are not recommended for equipment made by other OEMs who require friction modified fluids in order to assure smooth and quiet brake operation. For example, many farm tractor OEMs require fluids such as Chevron 1000 THF in order to eliminate brake noise.

### Approvals, performance and recommendations

#### Delo TorqForce is approved for:

- ZF TE-ML 03C (SAE 30)
- ZF TE-ML 07F (SAE 30)
- Volvo 97305-90 (SAE 50)

#### Delo TorqForce products meet:

- requirements of Allison C-4 (SAE 10W, 30)
- service requirements of Caterpillar TO-4 (SAE 10W, 30, 50, 60)
- ZF TE-ML 03C (SAE 10W)
- Komatsu KES 07.868.1 (SAE 10W, 30, 50)

Approvals, performance and recommendations *cont...*

**Delo TorqForce products may be used for:**

- Dana Powershift (SAE 10W, 30)
- Komatsu Dresser
- Tremec/TTC
- Vickers (Eaton) 35VQ25 (SAE 10W)
- Eaton Fuller/Roadranger Manual Transmissions (SAE 50 – Standard Drain Applications)
- Meritor (Rockwell) Manual Transmissions (SAE 50 – Standard Drain Applications)

*Do not use Delo TorqForce in high pressure systems in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.*

# Delo® TorqForce

Heavy-Duty Powershift Transmission and Final Drive Fluid



## Typical test data

DELO® TORQFORCE	RESULTS			
SAE Grade	10W	30	50	60
Product Code	510157	510158	510159	510160
Pour Point, °C	-33	-27	-27	-15
API Gravity	30.0	28.7	26.5	25.0
Viscosity, Kinematic				
cSt @ 40°C	43.8	87.5	199	319
cSt @ 100°C	6.8	10.9	18.5	25.0
Viscosity Index	110	110	103	101
Flash Point, °C	238	266	266	266

ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions, and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the Product Information Center.

This Product Data Sheet (PDS) was produced for the Africa, Middle East and Pakistan region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

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