

Product description

Delo[®] TorqForce products are high-performance lubricants designed for use in transmissions, final drives, and hydraulic systems in equipment manufactured by Allison, Caterpillar, Dana Powershift, Komatsu, Komatsu Dresser, Tremec /TTC, Eaton, Vickers and ZF.

Customer benefits and product features

Customer benefits

- **Supports equipment life**
Special additives help protect metal surfaces against scuffing and wear, even under severe operating conditions involving high temperatures and heavy loads.
- **Smooth operation**
Friction control helps prevent clutch slippage and promotes smooth, quiet and efficient transmission and brake operation while helping to minimize wear.
- **Minimal downtime**
Good compatibility with seals, O-rings, and packing materials helps maintain their integrity and minimize fluid leakage
- **Contributes to improved filterability**
Delo TorqForce is formulated with advanced additive technology that enables ultra-fine filtration, helping deliver good fluid cleanliness and equipment reliability. With appropriate Chevron approved ISOCLEAN[®] Programs, Delo TorqForce can achieve cleanliness levels as low as ISO 18/16/13 and potentially cleaner.
- **Long oil life**
Oxidation resistance at high operating temperatures helps maximize oil service life.
- **Reliable operation**
Formulated to keep metal components clean and free of varnish and sludge deposits that could lead to premature equipment failure.
- **Reduced weather and storage concerns**
Helps protect highly finished precision parts against rust and corrosion during operation in humid conditions and throughout seasonal shutdown periods.

Product features

- Manufactured using highly refined base oils and a balanced additive system that includes detergents, dispersants, oxidation and corrosion inhibitors, anti-wear and extreme-pressure agents, and a foam suppressant.
- Designed for use in both modern and older-generation drivetrain components.
- Formulated to provide friction retention, wear protection, seal compatibility, oxidation resistance, and viscosity stability.
- Maintains consistent frictional performance throughout the lubricant drain interval.

Customer benefits and product features *continued...*

- Delo TorqForce products are formulated to provide effective wear protection under severe operating conditions and high-load applications. They help protect precision components by controlling the formation of corrosion, varnish, and sludge.
- Delo TorqForce products are compatible with a wide range of modern and traditional seal and clutch materials.

Applications

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

For hydraulic systems operating under normal ambient temperatures, the SAE 10W viscosity grade is recommended. SAE 10W and SAE 30 grades are recommended for mobile hydraulic systems operating under severe service conditions.

For transmissions, the SAE 30 viscosity grade may be used. Delo TorqForce products are also suitable for heavy-duty off-highway automatic transmissions requiring an SAE 30 fluid.

For final drives, the SAE 50 viscosity grade is recommended under normal operating temperatures, while SAE 60 is recommended for operation in high ambient temperatures.

To meet Caterpillar specifications, Delo TorqForce products are not friction modified. Therefore, they are not recommended for equipment manufactured by OEMs that require friction-modified fluids to ensure smooth and quiet brake operation. For example, many agricultural tractor manufacturers recommend fluids such as Chevron 1000 THF to help eliminate brake noise.

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 containers tightly closed when not in use.

Product approvals, performance and recommendations

DELO [®] TORQFORCE	SAE 10W	SAE 30	SAE 50	SAE 60
ZF TE-ML 03C	A	A	-	-
ZF TE-ML 07F	A	A	-	-
Volvo 97305-09	-	-	M	-
Allison C-4	M	M	-	-
Caterpillar TO-4	M	M	M	M
Komatsu KES 07.868.1	M	M	M	-
Komatsu Dresser	S	S	S	-
Dana Powershift	S	-	-	-
Vickers (Eaton) 35VQ25	S	-	-	-
Eaton Fuller / Roadranger Manual Transmission	-	-	S*	-
Meritor (Rockwell) Manual Transmissions	-	-	S*	-
Tremec / TTC	S	-	-	-

A – Approved

M – Meets the requirements

S – Suitable for Use

**For standard drain applications only*

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, COC °C	238	266	266	266

ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Safety Data Sheet (SDS) 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 an SDS for this product, visit the Product Information Center.

This Product Data Sheet (PDS) was produced for the Asia-Pacific 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.

Customers should 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.

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