



Delo[®] TorqForce FD SAE 60

Proven performance heavy-duty final drive oil

(Supersedes Final Drive SAE 60)

Product description

Delo TorqForce FD SAE 60 is a proven performance heavy-duty final drive oil designed for use in final drives and axles in modern Caterpillar off-road equipment in severe service where fluids meeting the Cat FD-1 specification are recommended.

Delo TorqForce FD SAE 60 is formulated with mineral base oils in combination with a range of high performance additives.

Customer benefits

- Advanced additive system helps minimise wear in heavily loaded gears and bearings in severe high temperature, high load conditions
- High thermal and oxidation stability offers viscosity increase and deposit formation protection at drain intervals of up to 4,000 hours
- Designed for rust and corrosion protection in final drive components and rapid circulation at low temperature start-up to prevent wear
- Foam suppression performance helps maintain reliable component protection and prevent fluid loss

Product highlights

- **Helps minimise wear in severe high temperature, high load conditions**
- **Offers viscosity increase protection at 4,000-hour drain intervals**
- **Designed for rust, corrosion and cold-start protection**
- **Promotes foam suppression**

Selected specification standards include:

Caterpillar

Applications

Delo TorqForce FD SAE 60 is designed specifically for heavy duty final drives and axles in severe service:

- Final drives, axles, differentials and front wheels in Caterpillar equipment where Cat FD-1 performance fluid is specified
- Caterpillar heavy-duty off-highway haul trucks
- Caterpillar wheeled and track-type tractors

Unlike conventional Cat TO-4 type fluids, Delo TorqForce FD SAE 60 is generally not suitable for powershift transmissions or for oil-immersed brakes or clutches, due to different frictional characteristics.

For Caterpillar powershift transmissions, hydraulics and wet brake applications requiring lubricants meeting the Cat TO-4 specification, the Delo TorqForce series is recommended.

Approvals, performance and recommendations

Performance

- Caterpillar FD-1

Typical test data

Test	Test Methods	Results
Shelf Life: 60 months from date of filling indicated on the product label		
Density, 15°C, kg/l	ASTM D4053	0.899
Flash Point COC, °C	ASTM D92	288
Pour Point, °C	ASTM D5950	-20
Viscosity, Kinematic, 100°C, mm ² /s	ASTM D445	25.0
Viscosity, Kinematic, 40°C, mm ² /s	ASTM D445	335
Viscosity Index	ASTM D2270	97

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.

Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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