

Delo® TorqForce FD SAE 60

Proven performance heavy-duty final drive oil



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.

Customer benefits and product features

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 helps protect against viscosity increase and deposit formation 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 help prevent wear
- Foam suppression performance helps maintain reliable component protection and prevent fluid loss

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, Chevron recommends the Delo® TorqForce series.

Product approvals, performance and recommendations

Performance standards

- Developed independently by Chevron to comply with the requirements of Caterpillar FD-1

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Typical Test Data

DELO® TORQFORCE FD SAE 60	TEST METHOD	RESULT
Typical 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, mm ² /s @ 40°C	ASTM D445	335
mm ² /s @ 100°C	ASTM D445	25.0
Viscosity Index	ASTM D2270	97

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended. Produced by Chevron Global Lubricants: Asia Pacific.

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 Asia Pacific region based on the best available information at the time of issue. The specific information included may not directly reflect the market or conditions, and may vary. For the most up-to-date, country-specific information, please contact your local customer service center.

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Delo TorqForce FD SAE 60/AP/PDSV2_03/2024



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