

# TorGuard FD



## Product Description

D-A **TorGuard FD** are performance engineered lubricants designed specifically for final drive axle oil (FDAO) type applications that require the Caterpillar FD-1 specification.

D-A **TorGuard FD** when used under normal operating conditions, can have drain intervals up to 3,000 operating hours. Special additives are added to control foaming tendencies while deterring pitting and scuffing within gears and bearings. In addition, the robust additive package controls rust and exhibits very good oxidation stability to combat contact fatigue within the drive system.

D-A **TorGuard FD** is not recommended for final drive components that contain frictional materials such as wet disk systems.

## Product Features and Benefits

- Longer bearing and gear life.

- Protects against pitting, wear, and scuffing for gears and bearings.

- Superior wear protection under high torque, low speed operating conditions.

- Improved protection against rust and corrosion.

- Excellent oxidation stability to reduce deposits and minimize viscosity oxidative thickening throughout the drain cycle.

- Reduced foaming tendencies result in lower wear rates in high- pressure contact areas.

## Typical Applications

D-A **TorGuard FD** are performance engineered lubricants designed specifically for final drive and axle (FDAO) type applications that require the Caterpillar FD-1 specification.

D-A **TorGuard FD** is recommended for use in selected models and compartments such as: forestry equipment, off-highway trucks and track-type tractors.

In applications where D-A **TorGuard FD** is recommended, the factory fill oil for standard configured machines is SAE 60 however, Machine Operating Manuals should be consulted to select the appropriate grade for prevailing ambient temperatures.

D-A **TorGuard FD** may be used in any other equipment that requires fluids meeting the Caterpillar FD-1 specification.

## Typical Properties

SAE Viscosity Grade	Test Method	60
Viscosity @ 100 °C, cSt	ASTM D445	25.45
@ 40 °C, cSt	ASTM D445	332.7
Viscosity Index	ASTM D2270	99
Pour Point, °F (°C)	ASTM D97	-2 (-19)
Flash Point, °F (°C)	ASTM D92	>478 (>248)
Copper Strip Corrosion	ASTM D130	1b
FZG Test, Pass Stage	ASTM D5182	12
API Gravity	ASTM D4052	26.1

### D-A Part Number:

Bulk 53161  
Tote – 330 Gal 53163