

Product Description

D-A **TorGuard™** is designed to meet the lubrication needs of heavy-duty automatic and powershift transmissions requiring Caterpillar TO-4 or Allison C-4 fluids. It is designed with outstanding friction control characteristics to minimize clutch slippage thus allowing complete power transfer for maximum equipment productivity. D-A **TorGuard™** is fully compatible with fluoroelastomer friction material. This product is formulated with quality base oils and carefully selected additives resulting in a product which will provide maximum anti-wear protection and prevent glazing on friction surfaces. Special inhibitors are also present which limit oil oxidation even at high operating temperatures. Additionally, its fluid flow properties and elastomer seal compatibility make it an ideal hydraulic system lubricant when transmission fluid or engine oil products are recommended.

Product Features and Benefits

Full fluoroelastomer compatibility provides longer friction disc life, reduced downtime and lower maintenance costs.

Unique heavy duty transmission formulation controls sludge and varnish deposits to maintain a clean, efficient transmission.

High quality base oils and antioxidant additives produce a lubricant with minimal viscosity change and excellent resistance to high temperature degradation for longer lubricant life.

Thermally stable chemistry maintains proper friction retention between transmission and wheel brake friction disc assemblies.

Full compatibility with diesel engine oil prevents potential damage resulting from accidentally mixing with engine oil in crankcase or transmission.

Extra rust and corrosion additives protect mechanical components even if fluid is contaminated with water.

Typical Applications

Transmissions/Torque Converters/Final Drives

Caterpillar Powershifts, TO-4
 Caterpillar Drive Trains, TO-4
 Allison Automatics
 Allison Powershifts
 Sundstrand Hydrostatics
 Komatsu Dresser
 Dana Powershift

Meets or exceeds the requirements of:

Allison C-4
 Caterpillar TO-4
 Komatsu KES 07.868.1
 ZF TE ML 03C
 ZF TE ML 07F

Hydraulic Systems and Pumps

Vane
 Axial Piston
 Gear
 Caterpillar hydraulic systems, where TO-4 fluids are recommended

Typical Properties

SAE Grade	J300	10W	30	50	60
Viscosity @ 100°C, cSt	ASTM D445	6.5	11.6	19.7	24.5
@ 40°C, cSt	ASTM D445	40.1	102	227	313
Viscosity Index	ASTM D2270	111	101	99	100
Pour Point, °F (°C)	ASTM D97	-35 (-37)	0 (-18)	10 (-12)	10 (-12)
Flash Point, °F (°C)	ASTM D92	400 (204)	445 (229)	470 (243)	520 (271)
API Gravity	ASTM D287	29.0	27.6	26.2	25.5
Copper Strip Corrosion	ASTM D130	1b	1b	1b	1b
Rust Test	ASTM D665	Pass	Pass	Pass	Pass

D-A Part Number:

Bulk	53631	53641	53651	53681
Tote – 330 Gal	53633	53643	53653	N/A
Drum – 55 Gal	53632	53642	53652	N/A
Pail (Metal) – 5 Gal	53639	53649	N/A	N/A
Pail (Plastic) – 5 Gal	53638	53648	53658	N/A