

## Product Description

D-A TorGuard™ ST 30 is designed to meet the lubrication needs of heavy-duty automatic and powershift transmissions requiring Caterpillar TO-4 or Allison C-4 fluids. D-A TorGuard ST 30 is a full synthetic fluid intended to provide excellent flow characteristics at low temperatures, while at the same time providing superior film strength for transmission protection at elevated temperatures. It is designed for outstanding friction retention to minimize clutch slippage thus allowing complete power transfer for maximum equipment productivity. D-A TorGuard ST 30 is fully compatible with fluoroelastomer friction material. This product is formulated with quality synthetic base oils and carefully selected additives resulting in a product which will provide maximum antiwear 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 synthetic base oils and antioxidant additives produce a lubricant with superb viscosity control 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.

## PRODUCT AT A GLANCE

- Full Synthetic for Wide-Temperature Flow
- Heavy Duty Automatic and Powershift Transmission Fluid
- Allison C-4
- Caterpillar TO-4
- Caterpillar and other Hydraulic Systems
- Gear, Vane and Piston Hydraulic Pumps
- Sunstrand and Other Hydrostatic Systems
- Screw and Vane Air Compressors



**D-A Lubricant Company, Inc.**

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## Typical Applications

### Transmissions/Torque Converters/Final Drives

Caterpillar Powershifts, TO-2 and TO-4  
Caterpillar Drive Trains, TO-2 and TO-4  
Allison Automatics  
Allison Powershifts  
Sundstrand Hydrostatics

### Hydraulic Systems and Pumps

Vane  
Axial Piston  
Gear  
Caterpillar, where engine oil is recommended for hydraulic systems

### Rotary Air Compressors

Vane  
Screw

## Typical Properties

SAE Grade	J-600	ST 30
Viscosity		
@ 100° C,cSt	ASTM D445	10.0
@ 40° C,cSt	ASTM D445	57.0
Viscosity Index	ASTM D2270	153
Cold Cranking Viscosity	ASTM D5293	(SAE Grade Maximum: 5W- = 6600 cP)
@ -25°C, cP		n/a
@ -30°C, cP		<6600
Flash Point °F (°C)	ASTM D92	450 (232)
Pour Point °F (°C)	ASTM D96	<-55 (<-48)
API Gravity @ 60° F	ASTM D287	33.0
	Drum, 55 Gal	54112

To Order D-A Products, Call 1-800-OIL-LUBE (1-800-645-5823) or Fax orders to 765-482-3065

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