

# FS Uni-Drive TO-4 Fluid

## Description

This heavy-duty drive train lubricant is designed primarily for use in transmissions, hydraulic systems, differentials, and final drives of Caterpillar equipment. It possesses the required wear, oxidation, deposit control, frictional characteristics, and seal compatibility as set forth in Caterpillar specification TO-4. It will provide excellent service in both new and older Caterpillar equipment. It also meets the Allison C-4 requirements for use in Allison powershift transmissions.

This oil is also recommended for use in some manual transmissions where the following combination of specifications are allowed: GL-1, API CD and CAT TO-2. However, it should not be used to top off gear oils in these applications.

## Features and Benefits:

- Good friction retention: consistent shifting
- Excellent oxidation stability: minimizes lacquer deposits
- Rust/corrosion prevention: protects internal parts
- Wear protection: even highly loaded parts
- Good seal properties: controls swelling, hardening, and cracking

## Meets or Exceeds:

- Caterpillar TO-4, TO-2 (obsolete)
- Allison C-4, C-3 (SAE 10W, 30)
- ZF TE-ML 03
- ZF TE-ML 01 (obsolete)
- Komatsu
- Komatsu Dresser
- Eaton
- Transmissions requiring API CD/TO-2 fluids

## Product Availability:

### FS Uni-Drive TO-4 10W

5 Gal. Pail	Item #47318
55-gal. Drum	Item #16177
265-gal. Totes	Item #16349
Bulk	Item #047491

### FS Uni-Drive TO-4 30

5 Gal. Pail	Item #47319
55-gal. Drum	Item #71043
265-gal. Totes	Item #15319
Bulk	Item #047492

### FS Uni-Drive TO-4 50

5 Gal. Pail	Item #47320
55-gal. Drum	Item #16180
265-gal. Totes	Item #16352
Bulk	Item #047493

### FS Uni-Drive TO-4 60 FD-1

5 Gal. Pail	Item #267166
55-gal. Drum	Item #218055
265-gal. Totes	Item #218054
Bulk	Item #218056



## Typical Properties:

Test / Description	Specification			
<b>SAE Grade</b>	<b>10W</b>	<b>30</b>	<b>50</b>	<b>60 FD-1</b>
<b>Viscosity @ 100°C (cSt)</b>	5.9	11.2	18.5	24.0
<b>Viscosity @ 40°C (cSt)</b>	36.3	97.5	204.5	300.5
<b>Viscosity Index</b>	105	100	100	100
<b>Density (lb/gal)</b>	7.23	7.33	7.46	7.47
<b>Pour Point (°C)</b>	-36	-21	-12	-9
<b>Pour Point (°F)</b>	-33	-6	10	16
<b>Flash Point (°C)</b>	210	230	240	250
<b>Flash Point (°F)</b>	410	446	464	482
<b>Copper Strip, 3 hrs. @ 149°C</b>	1A	1A	1A	1A

