



Torque Fluid

United Torque Fluids are shear stable transmission and drive train fluids formulated especially to provide excellent friction, anti-wear performance and power transfer in Caterpillar and other high-horsepower off-highway heavy equipment.

United uses only choice base stocks and select additives to maximize compatibility with clutch face and seal materials. This results in longer equipment life and decreased risk of field failure, despite heavy loads and the high temperatures these machines generate.

United Torque/Final Drive Fluids are the last word in performance.

Beneficial Features:

Additional outstanding features of these fluids include:

- 💧 **Smooth shifting, glaze prevention and reduced brake chatter** via controlled frictional properties
- 💧 **Outstanding oxidation resistance** for long fluid life, even at high temperatures
- 💧 **Premium wear protection** for clutches, gears and hydraulic pumps
- 💧 **High shear stability**
- 💧 **Solid rust and corrosion protection in all climates**
- 💧 **Superior compatibility** with seals and friction materials
- 💧 **Excellent low-temperature fluidity**
- 💧 **Quality foam resistance**
- 💧 **Detergency** to keep system components clean
- 💧 **Savings** through reduced maintenance and higher output

Application Specifications:

United Torque Fluid is recommended for use in powershift transmissions, torque converters, final drives and hydraulic systems of Caterpillar and other heavy-duty off-highway construction equipment.

This premium lubricant is also recommended for use in certain heavy-duty commercial automatic and manual transmissions where an Allison C-4 or TO-4 quality fluid is specified. In addition, the 3150 viscosity grade also meets the performance requirements of Allison C-2 and C-3.

United Torque Fluid meets or exceeds the requirements of:

Allison C-4

Caterpillar TO-4, TO-2 (obsolete)

Dana Spicer Transmissions

Eaton Fuller Transmissions

Euclid Equipment

Komatsu Equipment

Vickers M-2950-S

ZF TE-ML 03 for Torque Converter Transmissions

Product Containers Available:

Bulk

55-gallon Drums

5- gallon pails

Typical Physical Specifications:

<u>CODE</u>	<u>3150</u>	<u>3151</u>	<u>3153</u>	<u>3155</u>
<u>GRADE</u>	<u>Allison C2/C3</u>	<u>CAT TO-4</u>	<u>CAT TO-4</u>	<u>CAT TO-4</u>
	<u>SAE 10</u>	<u>SAE 10</u>	<u>SAE 30</u>	<u>SAE 50</u>
Density, g/cm ³				
@ 15.6 °C (60 °F)	0.875	0.875	0.883	0.894
Color ASTM D1500	2.0	2.0	2.0	4.0
Flash Point, COC, °C (°F)	213 (415)	213 (415)	233 (451)	242 (468)
Pour Point, °C (°F)	-36 (-33)	-36 (-33)	-30 (-22)	-21 (-6)
Viscosity				
cSt @ 40 °C	43.0	43.0	98	227
cSt @ 100 °C	6.6	6.6	11.5	19.1
SUS @ 100 °F	221	221	510	1,200
SUS @ 210 °F	48.3	48.3	65.8	97.3
Viscosity Index	105	105	97	94
Zinc, wt. %	0.124	0.124	0.124	0.124