

Universal Co-Op Lubricants

Unidrive TO-4 Fluid *Power Transmission Caterpillar Fluid*

Product Information Sheet

Description:

A heavy-duty power transmission fluid that is specially formulated to meet the Caterpillar TO-4 and Allison C-4 specifications, Caterpillar created the very stringent TO-4 specification in answer to lubricant related problems due to improper frictional properties and materials compatibility characteristics in some TO-2 qualified oils. (The TO-2 specification was the former warranty requirement for Caterpillar.) TO-4 qualified oils are now the warranty requirement for Caterpillar and the use of TO-4 qualified oils is now the Caterpillar recommendation, even in equipment that originally recommended the use of TO-2 qualified oils. Caterpillar states that improved performance and equipment life should be expected with the use of TO-4 specification power transmission fluids.

Allison created the C-4 specification as a warranty requirement in response to new equipment designs and more severe operating conditions expected in modern equipment using their transmissions.

TO-4 / C-4 Fluid contains high quality paraffinic base oils and a highly specialized additive system that, together, provide the frictional properties, material compatibility and overall performance level required to meet warranty requirements for heavy duty equipment.

Application:

UNIDRIVE TO-4 / C-4 Power Transmission Fluid is recommended for all Caterpillar and Allison automatic or Power Shift Transmissions in heavy duty equipment. UNIDRIVE TO-4 / C-4 Power Transmission Fluid must be used to maintain warranty on Caterpillar power shift transmissions requiring TO-4 quality transmission oil.

Features And Benefits:

Improved frictional characteristics and materials compatibility (compared to TO-2 oils) provides longer life, and better performance.

Superior wear and corrosion protection extend equipment life.

Excellent shear stability provides consistent operation throughout drain interval.

Oxidation inhibitors and additives to control sludge lead to long fluid life.

Recommended for TO-4 / C-4 Original Equipment Manufacturer (OEM) applications to maintain warranty coverage.

Health & Safety:

A complete Material Safety Data Sheet is available upon request. Used oil contains by-products, which may be harmful. Avoid prolonged or repeated skin contact. Wash clothing and exposed areas with soap and water. Don't pollute - return used oil to a collection center.

Typical Properties:

	API Gravity	Pour Point, °F	Flash Point, °F	Viscosity Index	cSt at 40°C	cSt at 100°C
SAE 10W	28.4	-20	410	100	36.3	5.8
SAE 30	27.0	-10	450	100	97.7	11.2
SAE 50	26.6	15	460	100	208	18.7

Typical properties reflect general characteristics, not manufacturing specifications. Variations should be expected.