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ADVANCED LUBRICATION SPECIALTIES
ISO 9001:2008 Registered

ADVANTAGE TO-4 TRANSMISSION FLUIDS

OVERVIEW

ADVANTAGE TO-4 TRANSMISSION FLUIDS are premium quality lubricants specially formulated to meet both Caterpillar TO-4 and Allison C-4 (SAE 10W and 30 viscosity grades) requirements. These fluids are designed for use in power-shift transmissions, final drives, hydrostatic transmissions, torque converters and hydraulic systems of Caterpillar equipment. ADVANTAGE TO-4 TRANSMISSION FLUIDS provide substantially improved friction and antiwear performance compared with older API CD/TO-2 fluids.

FEATURES & BENEFITS

ADVANTAGE TO-4 TRANSMISSION FLUIDS offer good low temperature pumpability, optimized clutch-friction retention and slippage control, and improved clutch life compared to the best API CD/TO-2 engine oils. Their excellent anti-wear and load carrying capabilities work to reduce gear wear and extend transmission life, while providing superior brake chatter control. These oils provide hydraulic stability and protection against high-pressure pump wear along with outstanding thermal and oxidation stability.

APPLICATIONS

ADVANTAGE TO-4 TRANSMISSION FLUIDS are designed for use in powershift transmissions, hydrostatic transmissions, torque converters, final drives and hydraulic systems of Caterpillar and other off-highway construction and mining equipment Heavy-duty commercial automatic and manual transmission where Allison C-4 or Caterpillar TO-4 fluid is specified.

SPECIFICATIONS

Allison C-4, C-3 (SAE 10W, 30) • Caterpillar TO-4 • Eaton Fuller transmissions (SAE 30, 50) • Dana Spicer transmissions (SAE 30, 50) • Euclid Equipment • Komatsu Equipment • Dresser • Vickers M-2950-S • ZF TE-ML 03C for torque converter transmissions (SAE 10W, 30)

TYPICAL PROPERTIES

PRODUCT CODES	**507**	**509**	**511**
SAE Grade	10W	30W	50W
Viscosity, cSt @ 100 °C	6.6	11.0	20.0
Viscosity, cSt @ 40 °C	34.2	98.2	235.0
Viscosity Index	100	96	99
Viscosity, cP @ -20 °C	2500	-	-
Flash Point, °C	225	232	280
Pour Point, °C	-29	-23	-10
Copper Corrosion	1A	1A	1A
Foam Test	Pass	Pass	Pass
Total Base Number	7.8	7.8	7.8
Zinc, wt %	0.129	0.129	0.129
Sulfated Ash, wt %	1.24	1.24	1.24
Density, g/cm3 at 15°C	.876	.896	.900
Calcium, %wt	.3050	.3050	.3050