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F O R M U L A



Trans/Drive TO-4 Fluids

FORMULA 500® Trans/Drive TO-4 Fluids are formulated to meet the CATERPILLAR® TO-4 transmission specification. These fluids provide smooth power transfer in the extreme operating conditions of modern heavy duty equipment. FORMULA 500® TO-4 Fluids do not contain VI improvers or friction modifiers and are available in SAE 10W, 30, 50 and 60 monogrades. TO-4 Fluids meet the obsolete CAT® TO-2 specifications and the SAE 10W and 30 grades can be used in Allison C-4 applications.

FORMULA 500® Trans/Drive SAE 10W TO-4 Fluid is suitable for use in equipment calling for CAT® HYDO™ Advanced 10. Other manufacturers using a TO-4 type fluid are Eaton Powershift, Komatsu-Dresser, and Terex. Consult manufacturer’s recommendations before using.

FORMULA 500® Trans/Drive TO-4 Fluids can be used where the following specifications are required:

- CAT® TO-4 (formal approvals are not issued)
- CAT® TO-2 (OBSOLETE)
- Allison C-4 (off-road applications)
- Komatsu Micro Clutch (formal approvals are not issued)
- Komatsu Equipment (formal approvals are not issued)
- Vickers M-2950-S
- Dana Powershift*
- Tremac/TTC*
- Eaton Fuller*
- CAT® HYDO™ Advanced 10 **

* Where TO-4 is called for

**SAE 10W viscosity grade

Always follow equipment manufacturer’s recommendations for proper fluid type. TO-4 fluids ARE NOT for use in farm tractors requiring transmission hydraulic fluids.

Typical Properties:

Product	FORMULA 500® Trans/Drive TO-4 Fluids			
SAE Viscosity Grade	10W	30	50	60
Product Code	1301	1303	1305	1306
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	6.5	11.0	19.0	23.0
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	44.0	104.0	250.0	283.0
Viscosity Index (ASTM D-2270)	105	105	100	100
Total Base Number (ASTM D-2896)	7.5	7.5	7.5	7.5
API Gravity (ASTM D-1298)	30.0	29.1	27.0	26.6