



ECOSE[®] Synthetic All Season TO-4 Oil

Premium HD Transmission and Final Drive Fluid

Premium, synthetic multi-functional fluid developed to meet Caterpillar TO-4 and TO-4M performance requirements recommended for use in year-round service applications. It is recommended for use in transmissions, final drives and hydraulic systems that must operate over a wide temperature range. This lubricant is designed with a proprietary blend of synthetic base oils to improve low temperature performance, balanced frictional properties for consistent transmission operation that also provides excellent wet brake performance.

Features and Benefits

- Excellent all-season performance
- Extended oil drain – long fluid life
- Increased Equipment Life
- Universal applications – reduced inventory
- Good seal and O-ring capability
- Excellent load carrying for protections of final drive gear
- Balanced friction properties for smooth clutch operation
- Non-foaming – rapid air release
- Protects yellow metals against corrosion
- Outstanding resistance to oil oxidation for long fluid life

Applications

- Caterpillar TO-4, TO-4M, TO-2
- Mining Equipment
- Industrial Tractors
- Heavy Duty Manual and Semi-Automatic Transmissions that specifies TO-4 Fluid
- Construction Equipment
- Off-Highway Equipment

Typical Properties

Product Code	Test Method	531900
Viscosity, cSt @ 40°C	ASTM D-445	107.0
Viscosity, cSt @ 100°C	ASTM D-445	14.4
Brookfield Apparent Viscosity @-30°C	ASTM D-2983	37,500
Viscosity Index	ASTM D-2270	138
Pour Point, °F (°C)	ASTM D-5949	-39 (-38)
Flash Point, °F (COC)	ASTM D-92	475
Gravity, API	ASTM D-4052	32.3
Zinc, % wt.	ASTM D-5185	.104
KRL Shear, Viscosity Loss	ASTM D-6278	9.8

Always follow equipment manufacturer recommendation for appropriate viscosity grade.

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