



Product Data Sheet

ECOSE[®] HT Fluid TO-4

Heavy Duty Transmission and Final Drive Fluid

Heavy duty hydraulic/transmission and drive-train fluid containing additive technology that meets or exceeds the Caterpillar TO-4 specification requirements for use in off-highway equipment. These fluids can also be used in Allison transmissions, torque converters and hydraulic systems requiring an Allison C-4 fluid. **ECOSE HT Fluid TO-4** provides excellent protection of gears and offers superior thermal stability. They are formulated to give smooth transmission power transfer under high horsepower conditions.

Features and Benefits

- Excellent anti-wear protection to critical components
- Good fluidity at low ambient temperatures
- Outstanding oxidation stability, foam resistance and rust control
- Superior friction characteristics which eliminate excessive brake noise
- Excellent shear stability to maintain viscosity over the life of the equipment
- Improved friction and anti-wear performance compared to TO-2 fluids for longer equipment life

Applications

- Komatsu KES 07.868.1 Powershift Transmissions
- Komatsu Micro-Clutch – all grades
- Allison C-4, SAE 10W and 30 grades
- Caterpillar TO-4, CF/TO-2 – all grades
- ZF TE-ML03, ZF TE-ML07F
- Construction Equipment
- Mining Equipment
- Off-Highway Equipment
- Industrial Tractors
- Dana Powershift



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Typical Properties

SAE Grade	Test Method	10W	30	50
Product Code		531910	531930	531950
Viscosity, cSt @ 40°C	ASTM D-445	35	85.0	220
Viscosity, cSt @ 100°C	ASTM D-445	6.1	10.5	20.0
Brookfield Apparent Viscosity @-35°C	ASTM D-2983	40,000	N/A	N/A
Viscosity Index	ASTM D-2270	122	106	105
Color	ASTM D-1500	L3.0	L3.5	4.0
Pour Point, °F	ASTM D-5949	-38	-15	-5
Flash Point, °F	ASTM D-92	405	425	465
Gravity, API	ASTM D-4052	29.5	29.0	25.5
Density, lbs/gal	Calculated	7.318	7.341	7.505

Always follow equipment manufacturer recommendation for appropriate viscosity grade.

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