



Final Drive & Hydraulic Fluids

TO-4 / C-4 SAE 10W, 30, 50, 60

Final Drive & Hydraulic Fluids

Benefits:

- Good fluidity and low temperature properties
- Anti-wear protection to critical components
- Oxidation stability, foam resistance, and rust control
- Shear stability to maintain viscosity over the life of the equipment
- Excellent frictional characteristics
- Enhanced friction and anti-wear performance compared to TO-2 fluids for longer equipment life
- Gives smooth transmission power transfer under high horsepower conditions

Applications:

Formulated for use in all new Caterpillar equipment requiring the use of a TO-4 fluid:

- Powershift and direct drive transmissions
- Winches
- Final drives
- Allison transmission, torque converter and hydraulic system applications specifying the use of an Allison C-4 fluid. (SAE 10W and SAE 30)

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SAE Grade	Test Method	10W	30	50	60
Gravity, API	ASTM D-4052	30.8	26.4	26.4	25.7
Density, lbs/gal (g/L)	Calculated	7.27 (872)	7.47 (895)	7.47 (895)	7.51 (900)
Viscosity, cSt @ 40°C	ASTM D-445	50.6	100.4	230.3	291.2
Viscosity, cSt @ 100°C	ASTM D-445	7.8	11.6	19.7	23.3
Viscosity Index	ASTM D-2270	119	103.1	97.7	99
CCS @ (-25)°C, cP	ASTM D-5293	6200	N/A	N/A	N/A
MRV @ -30°C, cP	ASTM D-4684	17,700	N/A	N/A	N/A
Brookfield Vis @ -35°C, cP	ASTM D-2983	53,500	N/A	N/A	N/A
Brookfield Vis @ -25°C, cP	ASTM D-2983	N/A	42,700	N/A	N/A
Brookfield Vis @ -15°C, cP	ASTM D-2983	N/A	N/A	38,100	N/A
Pour Point, °F (°C)	ASTM D-5949	-49 (-45)	-30 (-22)	-17 (-27)	0 (-18)
Flash Point, °F (°C)	ASTM D-92	400 (204)	445 (229)	485 (252)	465 (241)
Sulfated Ash, wt. %	ASTM D-874	0.89	0.89	0.89	N/A
HTHS, mPa•s	ASTM D-5481	2.56	3.42	5.22	N/A
Color	ASTM D-1500	6.5	L 7.0	L 8.0	L 8.0
Product Code		7354	7355	7356	7348

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