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DATA BULLETIN

Synthetic CVT Fluid



Continuously variable transmissions (CVTs) create unlimited gear ratios using a belt or chain running between two variable diameter pulleys. CVTs require a unique transmission fluid with specialized frictional characteristics designed to ensure the belt or chain remains in contact with the pulleys without slipping. AMSOIL Synthetic CVT Fluid provides outstanding metal-to-metal frictional properties and excellent protection and performance. It is Warranty Secure and is a cost-effective, high-performance alternative to vehicle manufacturer fluids.

Excellent Frictional Properties

The metal-to-metal frictional properties between the CVT's belt/chain interface and the pulleys are important, relying on the CVT fluid to prevent slipping. AMSOIL Synthetic CVT Fluid provides exceptional metal-to-metal frictional properties to help prevent belt and chain slipping and help extend transmission life.

Outstanding Wear Protection

AMSOIL Synthetic CVT Fluid is durable. In normal and severe service, it effectively resists wear to the transmission's vital parts, helping achieve long life.

Resists Heat

In elevated heat, Synthetic CVT Fluid's thermally stable formulation guards against the harmful effects of thermal breakdown. It resists the formation of varnish that can threaten transmission performance and life.

Superior Wet-Clutch Performance

AMSOIL Synthetic CVT Fluid provides superior wet-clutch performance for outstanding anti-shudder durability and reduced noise, vibration and harshness.

Field Proven

Field testing was conducted to compare AMSOIL Synthetic CVT Fluid and Nissan NS-2 CVT Fluid. Four vehicles (two equipped with AMSOIL CVT Fluid and two with Nissan NS-2 CVT Fluid) were driven 100,000 miles before the transmissions were torn down and inspected.

As indicated by the lack of wear in the belt and pulley photos below, AMSOIL CVT Fluid provided outstanding protection throughout the duration of the field trial, proving it is a high-quality replacement for Nissan NS-2 CVT Fluid.

BELT





PULLEY





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TYPICAL TECHNICAL PROPERTIES
Synthetic CVT Fluid (CVT)

Kinematic Viscosity @ 100°C, cSt (ASTM D445)	7.1
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	32.8
Viscosity Index (ASTM D2270)	187
Flash Point, °C (°F) (ASTM D92)	212 (414)
Fire Point, °C (°F) (ASTM D92)	224 (435)
Pour Point, °C (°F) (ASTM D97)	-45 (-49)
Brookfield Viscosity @ -40°C, cP (ASTM D2983)	8779
Foam Tendency (ASTM D892, Sequence I, II, III)	0/0, 10/0, 0/0

Lab Tested
AMSOIL lab testing also reveals AMSOIL CVT Fluid met, and in some cases surpassed, the protection and performance of Nissan NS-2 CVT Fluid:

- In FZG wear testing (ASTM D5182), Nissan NS-2 achieved a 7 stage pass, while AMSOIL CVT Fluid significantly surpassed it with an 11 stage pass.
- In the JASO LVFA Anti-Shudder Durability Test, AMSOIL CVT Fluid lasted six times longer, translating into improved anti-shudder durability and reduced noise, vibration and harshness.

APPLICATIONS
AMSOIL Synthetic CVT Fluid is recommended for belt- and chain-type continuously variable transmissions requiring the following:

Audi/VW TL 52180, G 052 180, G 052 516 • BMW 8322 0 136 376, 8322 0 429 154, EZL 799A • Daihatsu Amix CVTF-DC, CVTF-DFE • Dodge/Jeep NS-2, CVTF+4®, MOPAR® CVT 4 • Ford CVT23, CFT30, WSS-M2C933-A, Motorcraft® XT-7-QCFT, MERCON® C • GM/Saturn DEX-CVT, CVTF I-Green2 • Honda HMMF, HCF-2 • Hyundai/Kia SP-CVT 1 • Mazda CVTF 3320 • Mercedes Benz CVT28, 236.20 • Mini Cooper EZL 799A, ZF CVT V1 • Mitsubishi DiaQueen CVTF-J1, CVTF-J4 • Nissan NS-1, NS-2, NS-3 • Punch EZL 799A • Shell Green 1V • Subaru e-CVTF, i-CVTF, Lineartronic® CVTF, K0425Y0710, CV-30 • Suzuki CVTF 3320, TC, NS-2, CVTF Green1, CVTF Green 2 • Toyota/Lexus TC, FE

SERVICE LIFE
AMSOIL Synthetic CVT Fluid should be changed according to your vehicle manufacturer's recommendations.

WARRANTY
AMSOIL Synthetic CVT Fluid is Warranty Secure,™ keeping your factory warranty intact. AMSOIL Synthetic CVT Fluid is a high-performance replacement for vehicle manufacturer-branded products and is also backed by the AMSOIL Limited Warranty (G1363). For details, visit www.amsoil.com/warrantysecure.

HEALTH AND SAFETY
This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available via the Internet at www.amsoil.com or upon request at (715) 392-7101. **Keep Out of Reach of Children.**

AMSOIL products and Dealership information are available from your local full-service AMSOIL Dealer.

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