



## Technical Service Bulletin

**Date:** 09/19/2005

**Product Description:** Automatic Transmission Fluids

**Subject:** Mixing and/or Substituting CTG or ART in Place of ATF

### OBJECTIVE:

To caution individuals about mixing AMSOIL Synthetic Universal Automatic Transmission Fluid (ATF) with AMSOIL Supershift Racing Transmission Fluid (ART) or AMSOIL SAE 10W Synthetic Powershift Transmission Fluid (CTG).

### ISSUES:

Manufacturers of pickups with high horsepower diesel and gasoline powered engines are recommending the same automatic transmission fluids used for their light duty applications. Modifications to increase horsepower and engine performance can cause slippage in the automatic transmission. To reduce slippage, some operators are choosing to use ART or CTG or mix ART or CTG with ATF, which does not meet proper fluid specifications.

### TECHNICAL DISCUSSION:

AMSOIL Synthetic Automatic Transmission Fluid is a high performance lubricant for domestic and foreign automatic transmission fluid applications. It is also formulated to meet and exceed the performance requirements for medium and heavy duty applications such as the Ford "Power Stroke" 7.3 liter diesel pickup, Dodge 5.9 liter Cummins diesel pickup, and General Motors 6.5 liter and 6.6 liter "Duramax" diesel pickup models. In each case, the manufacturers recommend the use of standard ATF fluid meeting the same requirements as light duty applications (MERCON®, MERCON® V, GM DEXRON® III, Chrysler ATF+ thru ATF+4).

In many instances engine horsepower is being modified to enhance towing ability and performance. This is being done through the use of after

market products such as performance chips, turbo pressure boosters, injectors, etc. Modifications such as these can increase the demands of the transmission fluid and the transmission components, however, they do not necessitate changing the type of transmission fluid used.

AMSOIL Supershift Racing Transmission Fluid (ART) is specifically formulated for automatic transmissions operating in high horsepower and high torque conditions found in racing or transmissions that require Ford "F" type transmission fluid.

AMSOIL Synthetic SAE 10W Powershift Transmission Fluid (CTG) is formulated for use in heavy equipment and is designed to prevent clutch slippage for positive clutch engagement.

The use of CTG or ART in transmissions used in vehicles such as the Power Stroke 7.3 liter, Dodge 5.9 liter Cummins diesel pickup, and General Motors 6.5 and 6.6 liter Duramax, may cause erratic shift patterns, chattering noise, or result in possible damage to the clutches.

### RECOMMENDATION:

AMSOIL recommends the use of AMSOIL Synthetic Universal Automatic Transmission Fluid (ATF) for the correct applications. AMSOIL Supershift Racing Transmission Fluid (ART) is recommended for racing, Allison C-4 and Ford Type F applications. AMSOIL Synthetic SAE 10W Powershift Transmission Fluid (CTG) is recommended for heavy-duty Powershift transmissions, Allison C-4, Caterpillar TO-4 and Komatsu TO-10 applications.

AMSOIL does not recommend the use of, or mixing of, ART or CTG in applications that require ATF.

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**Distribution:** \_\_\_ Internal X All

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