



Dana Transmissions - Approved Lubricants

Drive-Trainer Suggests:

Marketer	Product Name
Sunoco	Dexron III** Part #: ATF PAIL

Some of the Most Common Approved:

For a complete listing of approved lubricants, please reference the OE's website

Marketer	Product Name
CAT	TO-4
John Deere	J20 C,D
Military Spec	MIL-PFR-2104G
Valvoline Lubricants	Dexron IID or Dexron III**

**Note:

- For the use of Dexron lubricants in combination with graphitic friction plates (used in 1000, HR36000 and T40000 series) a specific engineering approval is required.
- For electronic-modulated transmissions (like the TE series) only Dexron® III is approved.
- GL-5 and engine oils are not approved. The lubricant must be designed for transmissions.
- Multi-viscosity lubricants are approved

Preferred Oil Viscosity:

Select a lubricant with a viscosity grade that fully covers the prevailed ambient temperature on the Oil Application Chart (Fig. 1).

For Example:

Ambient temperature from 14 to 68°F / -10 to 20°C

- Select 10W30
- When multiple viscosity grades are suitable, select the grade where the ambient temperature is closest to the middle of the viscosity range.

For Example:

Ambient temperature from 68°F / 20°C

- SAE30 is preferred over SAE40 or SAE50
 - Fire-resistant fluid – See Vehicle Original Equipment Manufacturer (OEM) recommendations.
 - Sump pre-heaters – Before operating, the transmission fluid must be preheated to a minimum temperature, according to the viscosity grade, to assure sufficient pumping viscosity.
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 - Warm up – For full load transmission functionality, a minimum sump temperature of 68°F / 20°C is required. Before reaching the minimum sump temperature, only neutral gear or unloaded driving is allowed. Engine is not to exceed 1500 RPM or more than half-throttle.

Extended oil change interval

- Extended oil service life may result when using synthetic fluids.
- Appropriate change intervals should be determined for each transmission by measuring oil oxidation and wear metals over time to determine the baseline.
- Wear metal analysis can provide useful information but a transmission should not be removed from service based solely on this analysis.
- Any deviation from the above requirements must have written approval from the Application Engineering Department of Dana Off-Highway.

Figure 1.
Oil Application Chart

