

The Importance of Shear Stability

How Does AMSOIL Compare to Other Brands?

The severe environments found inside diesel engines can tear apart, or shear, the molecular structure of oil, leading to viscosity loss. Making matters worse, moderate levels of fuel dilution common in some applications contribute to further viscosity loss. Four percent fuel dilution is often enough to reduce an oil's viscosity to less than its specified viscosity grade, resulting in metal-to-metal contact and accelerated equipment wear.

The Kurt Orbahn Shear Stability Test (ASTM D-6278) is the standard scientific test for measuring a lubricant's ability to resist shear. Instead of testing our oils against the competition in a 90-cycle demonstration, we doubled that length to 180 cycles to see what would happen. Samples were then contaminated with 2 and 4 percent ultra-low-sulfur diesel fuel (ULSD). Even at 4 percent fuel dilution, AMSOIL Premium API CJ-4 Synthetic Diesel Oil stayed in grade to maintain engine protection while the other oils failed.

Issues like fuel dilution are typical in the real world of today's high-powered diesels. Be sure your customers know that AMSOIL effectively resists the effects of fuel dilution and other problems truckers encounter on a routine basis.

Kurt Orbahn Shear Stability Test 180 Cycles

As tested in an independent lab November 2009. All oils 5W-40.

