

**Wheels:** George writes, “When my 1993 Toyota Previa failed E-check at 160,000 miles, I reread articles I had collected on passing the emissions test, including those written by you. New spark plugs, an air filter, and an oil change reduced HC and CO, but CO still fails at 2.3% versus 1.7% standard. I understand that alcohol burns pollution free. How much will emissions be reduced if I refuel with 10% ethanol reformulated gasoline? Only 10%, or is the effect greater? Also, could high humidity from heavy rain at time of the test cause rich fuel-air mix and CO failure?”

**Halderman:** CO means that it is rich or does not have enough air. Look for restricted intake. Also, too much fuel could be the cause, such as a defective fuel pressure regulator or dripping injectors. Yes, you are correct that using 10% alcohol will reduce CO emissions (maybe by 10%) and you are also correct that humid air could be a factor because the moisture displaces oxygen.

