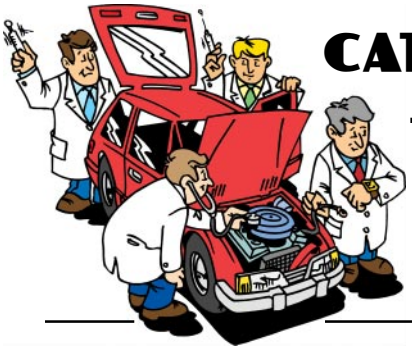

CAT Products, Inc

Technical Service Bulletin

Bulletin #: 0009
Manufacturer: All
Vehicle: All
Service: Fuel and Induction System

Improve the Fuel Economy by Replacing the Oxygen Sensors

COMPLAINT: Poor fuel economy.

CAUSE: Faulty oxygen sensors.

CORRECTION: Test and replace the oxygen sensors as necessary.

IMPORTANT Only the forward oxygen sensors have anything to do with fuel economy. The oxygen sensors behind the catalytic converters monitor catalytic converter efficiency. They have no effect on fuel economy.

One of the most critical components for fuel economy is the oxygen sensor. The oxygen sensor allows the computer to monitor the air/fuel mixture, and maintain the best mixture for proper fuel efficiency.

Over time, oxygen sensors can become lazy, or can shift high or low. Either of these conditions can have a dramatic effect on fuel economy, without setting a trouble code.

Robert Bosch Corporation is the inventor and world's largest supplier of oxygen sensors. They recommend replacing the oxygen sensors every 30,000 to 50,000 miles. A research paper from the American Petroleum Institute titled Analysis of Causes of Failure in High Emitting Cars, stated that one in four vehicles are emitting high emissions as a result of a defective oxygen sensor.

All Run-Rite products are specifically tested to be oxygen sensor safe, but they won't overcome a faulty sensor. To provide the best fuel economy for your customers, check the oxygen sensor operation and replace any that don't meet operating specifications.