



Neglect or Mistreatment of the CATalytic Converter may result in early CAT failure or diminished functionality.....

The catalytic converter is an integral and important part of the vehicle's exhaust system designed to remove harmful pollutants; Carbon Monoxide (CO) and Hydrocarbons (HC). ***If neglected or mistreated, the CAT will fail.***

A 60 second test and report on a vehicle's exhaust emissions will provide a health check that can save the CAT.

- Identify potential engine, catalytic converter or exhaust problems early – ***saving on future costly repairs.***
- Ensure the vehicle meets current DMV emission regulations.
- Keep the vehicle running at its maximum efficiency - ***More Miles for less gas!!***

WHAT SHOULD THE READING BE?

		Good Result	Bad Result
Lambda	λ	0.970 - 1.015	≤ 0.969 Rich ≥ 1.016 Lean
Carbon Monoxide	CO	Approx. 0.75% or less	More = Too much fuel/rich mixture
Hydrocarbons	HC	Approx. 65ppm or less	More = Misfire
Oxygen	O2	Approx. 0.1 – 1%	More = Too much air/lean mixture
Carbon Dioxide	CO2	Approx. 13.5+%	Less = reduction in engine efficiency

These figures may vary depending on the vehicle and the efficiency of the CAT.

WHAT CAN KILL THE CATalytic convertor?

- **Old Age!** The useful life of an OE Catalytic Converter is for the life of the vehicle if it is operated and maintained correctly, and will depend on various factors such as the quality of the fuel being used, the way in which the vehicle is driven, the frequency and quality of the maintenance of the vehicle, etc. Replacement Catalytic Converters may have a lifetime of 60,000 to 100,000 miles.
- **Fever!** If the CAT overheats it can cause irreversible damage to the internal components – This can be caused by something as simple as misfire.
- **Back Pressure!** Unsuitable or sub-standard exhaust components, air leaks causing the computer to supply too much fuel and other issues can cause the CAT substrate to melt or break apart causing the converter to plug over time effecting engine and other components.
- **Breakage!** Impact from debris in the road or speed bumps can fracture the main ceramic component rendering the CAT useless, possibly affecting the engine and other components.
- **Poisoning!** Engine wear leading to oil getting into the CAT, unsuitable fuel (leaded) or fuel additives or even dirty air filters can poison or cause blockages.

All of the above can be identified with ANSED Diagnostic Solutions.

Simple and Accurate Diagnostic Testing complete in 60 seconds!