

Understanding the 1234YF Oxygen Sensor Life Expectancy

Typical Oxygen Sensor life for the 1234YF A/C machine is 3 years under normal usage.

The Oxygen Sensor detects O₂ through a chemical reaction within the sensor that happens when it encounters oxygen.

Contrary to what you might think, the more the A/C machine and refrigerant identifier are used, the better it is for the sensor. It is not the refrigerant that degrades the oxygen sensor, it is the oxygen in the system that does.

Unfortunately, if your A/C machine is sitting for months not being used it will shorten the oxygen sensors lifespan. If the last vehicle being serviced with the A/C machine had air in the system when the refrigerant was sampled, that air would now be trapped inside the identifier sampling hose. The oxygen within that hose will continue to degrade the oxygen sensor over time.

How can a person prolong or get to the typical Oxygen Sensor life.

The easy answer is using the A/C machine more frequently.

If there has been a period of time without any usage, one simple solution would be hooking it up to a vehicle, whether or not service is needed, and running an automatic service process. This would be beneficial to prolonging the life of the O₂ sensors.

For your reference, here is the 1234YF Oxygen Sensor part number, if needed. This can be purchased from the Mazda Tool and Equipment website.

Part Number: **42-16916**

