

# Auto Service Summary

**Shop:** Performance Tire & Auto

**Date:** 6/11/2025

## Reason For Visit

The vehicle was brought in because the Check Engine Light was on, and there were signs of engine performance issues like misfires. Additionally, a complete inspection, oil change, and testing services were requested to identify the underlying problems.

## Repair Summary

During the service, a comprehensive inspection and various repairs were completed. An oil change using semi-synthetic oil was performed. Several diagnostic trouble codes were identified, indicating misfires across multiple cylinders and issues related to the camshaft and crankshaft positions, likely due to rodent damage on the wiring. Debris was found in the camshaft timing oil control valve, suggesting it should be replaced. The serpentine and A/C compressor drive belts were replaced to ensure proper operation. Both front and rear suspension components were serviced, replacing struts and shocks to improve vehicle handling and safety. The right rear leaf spring was also replaced, as well as a timing chain guide to address potential engine timing concerns.

## Major

### **Camshaft Timing Oil Control Valve:**

This valve was not functioning correctly and required cleaning. It plays a critical role in engine performance; if not corrected, it may have caused severe engine damage.

### **Front Strut Assembly Replacement:**

Essential for vehicle stability and comfort. Worn struts can lead to poor handling and excessive tire wear.

### **Right Rear Leaf Spring Replacement:**

This spring is crucial for supporting vehicle weight and ensuring a smooth ride. A broken leaf spring can cause loss of control.

## Moderate

### **Serpentine and A/C Compressor Drive Belt Replacement:**

These belts drive essential components like the alternator. If broken, it can lead to a sudden loss of power.

### **Rear Shock Replacement:**

Provides comfort and control. Worn-out shocks can cause a rough ride and challenging handling in emergencies.

## Minor

### **Oil Change:**

Keeps the engine running smoothly by reducing wear on moving parts. Over time, old oil can cause engine damage.

### **Camshaft Sensor Wiring Repair:**

Fixed due to rodent damage, important for accurate engine timing information.

## Cost Breakdown

1. Complete Vehicle Inspection:	\$19.95
2. Semi-Synthetic Oil Change:	\$67.75
3. Testing and Inspection:	\$159.22
4. Connector:	\$11.42
5. Mechanic Labor (Camshaft Timing):	\$303.95
6. Mechanic Labor (Valve Cover Gasket):	\$327.80
7. Serpentine Belt Replacement:	\$162.85
8. Front Strut/Shock Replacement:	\$998.27
9. Rear Shock Replacement:	\$435.98
10. Timing Chain Guide Replacement:	\$37.55
11. Rear Leaf Spring Replacement:	\$858.41
12. Environment & Technology Fee:	\$3.88
13. Job Supplies:	\$86.43
14. Subtotal:	\$3,473.46
15. Sales Tax:	\$324.77
TOTAL:	\$3,798.23

## What Does This Actually Mean?

### **Camshaft Timing Oil Control Valve:**

This component controls the oil flow to the camshaft, adjusting its position for efficient engine timing and performance. A stuck valve can cause engine misfires and poor fuel economy.

### **Serpentine Belt:**

Powers multiple essential engine accessories like the alternator and power steering pump. If it breaks, these components stop working.

### **Struts and Shocks:**

These absorb and dampen road impacts, ensuring a smoother ride and proper tire contact with the road. When worn, they affect handling and safety.

### **Leaf Springs:**

Support the vehicle's weight and help maintain proper wheel alignment. A broken spring can lead to instability.

### **Timing Chain Guide:**

This part keeps the timing chain aligned, which is crucial for synchronizing engine valves and pistons. Misalignment can result in severe engine damage.

## Other Notes

All service work is covered by a nationwide 24-month/24,000-mile warranty. For warranty service, call 1-866-588-0728.

## Recommendations

1. Regularly check for rodent activity around your vehicle, especially if parked in areas prone to wildlife.
2. Keep up with routine maintenance, such as oil changes and tire rotations, to extend the life of your vehicle.
3. Monitor for unusual noises or feelings while driving, which can indicate worn suspension components.
4. Consider professional inspections if you notice warning lights or performance issues to identify problems early.