

Auto Service Summary

Shop: Performance Tire & Auto

Date: June 11, 2025

Reason For Visit

The car was brought in for a routine oil change and a complete vehicle inspection. During the inspection, multiple engine codes were detected, indicating issues with the engine misfiring and potential timing problems.

Repair Summary

During the visit, a complete vehicle inspection was conducted, and the oil was changed using semi-synthetic Dexos oil. The technicians conducted tests and found multiple engine misfires and timing issues, particularly related to camshaft alignment and rodent damage to the wiring. As a result, several parts were replaced, including the wiring, timing chain guide, and components related to the camshaft timing oil control system. Additional maintenance included replacing the serpentine belt and both the front and rear shock absorbers. They also replaced the right rear leaf spring, which is a key component of the rear suspension system.

Major

Engine Misfires and Timing Issues:

Detected multiple misfires in engine cylinders and timing misalignment, which can lead to severe engine performance issues or failure.

Replaced damaged wiring and components around the camshaft to prevent further damage or potential breakdown.

Front and Rear Strut Replacement:

Replaced both front and rear struts/shocks to restore proper vehicle handling and comfort on the road.

Failure to replace struts could lead to vehicle instability and increased stopping distance.

Leaf Spring Replacement:

Replaced the right rear leaf spring, a crucial part of the rear suspension, to maintain proper load bearing and ride quality.

Neglecting this could result in a bumpy ride and uneven vehicle balance.

Moderate

Serpentine Belt Replacement:

The serpentine belt, which powers the vehicle's alternator, power steering, and air conditioning, was replaced to maintain safe vehicle operation.

A broken serpentine belt could lead to loss of essential vehicle functions.

Valve Cover Gasket and Timing Chain Guide:

Ensured there were no oil leaks from the valve cover and kept the timing chain correctly aligned, preventing mechanical failure.

Ignoring these may result in oil leaks and potential engine damage.

Minor

Oil Change:

Replaced old engine oil with new semi-synthetic oil to keep the engine lubricated and running smoothly.

Failing to change oil regularly can lead to engine wear and decreased fuel efficiency.

Cost Breakdown

1. Complete Vehicle Inspection:

\$19.95

2. Oil Change (including Filter and Oil):

\$67.75

3. Testing and Inspection:

\$159.22

4. Connector:

\$11.42

5. Service Package & Labor (VVT Solenoid, Valve Cover Gasket Set):

\$303.95 + \$327.80

6. Serpentine Belt Replacement:

\$162.85

7. Strut/Shock Replacement - Front:

\$998.27

8. Strut/Shock Replacement - Rear:

\$435.98

9. Timing Chain Guide and Right Rear Leaf Spring:

\$37.55 + \$858.41

10. Job Supplies:

\$86.43

11. Enviro & Technology Fee:

\$3.88

12. Subtotal:

\$3,473.46

13. Sales Tax:

\$324.77

14. Total:

\$3,798.23

What Does This Actually Mean?**Engine VVT Solenoid:**

This part helps manage the timing of engine valves for better performance and efficiency. Without it, you might experience reduced fuel efficiency and increased emissions.

Camshaft Timing Oil Control Valve:

Controls oil flow to the engine's timing gears. If it fails, it can lead to poor engine performance and increased wear.

Serpentine Belt:

Powers vital components like the alternator and power steering pump. If it breaks, you'll potentially lose power steering and your engine might overheat.

Front and Rear Struts/Shocks:

Absorb road shocks and support the vehicle's weight to provide a comfortable ride. Bad shocks can result in a rough ride and handling issues.

Leaf Spring:

Part of the rear suspension. It supports the vehicle's weight and absorbs impacts. If it breaks, the vehicle may sag or ride unevenly.

Timing Chain Guide:

Helps keep the timing chain properly aligned for smooth engine operation. Problems here can lead to mechanical failure.

Other Notes

All service work is covered by a nationwide 24-month/24,000-mile warranty. Contact:

1-866-588-0728.

Recommendations

1. Regularly check the engine light and address issues promptly to prevent major repairs.
2. Have suspension components inspected periodically to ensure a smooth and stable ride.
3. Replace the air filter and cabin filter as recommended to maintain engine efficiency and air quality.
4. Monitor serpentine belts and replace them as suggested by the vehicle manufacturer to avoid unexpected problems.