

A clearer picture. A practical next step.

2015 Toyota RAV4 | 2.5L 4-cylinder | Demo Guided Health Check

An edited example based on the app's prerecorded demo report. This document illustrates the reasoning and information a report can provide. It is not a diagnosis of your vehicle.

01 / The big picture

The engine is running lean, and the vehicle is also reporting a fuel-vapor system leak. Together, the captured readings and trouble codes suggest the EVAP purge circuit as a likely place to investigate. A stuck-open valve or damaged hose could explain the pattern; testing is needed to confirm the cause.

CODE	WHAT THE VEHICLE REPORTED
P0171	System too lean (Bank 1)
P0441	Evaporative emission control system: incorrect purge flow
P0455	Evaporative emission control system: large leak detected

02 / What the evidence adds

During the demo's warm-idle window, combined Bank 1 fuel trim averaged **+25.3%** and peaked at **+31.3%**. The engine computer was adding substantial fuel. That supports the lean-condition code. Simultaneous purge-flow and vapor-leak codes make the purge circuit worth investigating.

The capture does not establish one confirmed failed component. The higher-RPM data was brief and sparse, limiting comparisons across engine speeds.

A place to start. Not a parts shopping list.

03 / Likely causes

EVAP purge valve: A valve that stays open can let unmeasured air into the intake while preventing the vapor system from sealing. This is a leading possibility in the demo analysis.

Purge hose: A disconnected or cracked hose could produce a similar pattern. Inspection and testing help distinguish a hose issue from a valve issue.

04 / Recommended next steps

Share the pattern. Bring the related trouble codes and captured readings to your mechanic.

Ask about confirmation. Have the purge valve and hose inspected, and the intake/EVAP system tested for leaks. Confirm the fault before replacing parts.

Recheck after repair. Compare the readings and let the vehicle complete its checks again. A change in the evidence is more useful than clearing a warning light alone.

What this sample can and cannot tell you

These are possibilities based on a single prerecorded capture. No repair has been independently confirmed in this sample. A diagnostic report cannot inspect every component or establish that a vehicle is safe to drive. A qualified mechanic can confirm a suspected fault through inspection and testing.

Keep the context

MechaObD's app reports can be revisited and exported as PDFs. This website sample is an edited illustration of the report content, not a complete export of every app section or graph.

Explore the sample online: mechaobd.com/sample-report

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