

INDEPENDENT VEHICLE INSPECTION

INSPECTFIRST

Know Before You Pay

INSPECTION REPORT

REPORT NO. REP-0001 · 31 AUGUST 2026

I. Vehicle

VEHICLE	Toyota Prius (2013)
VIN	JTDKN3DU0A0000000
MILEAGE	124,500 km
REGISTRATION	UBB 000X
CUSTOMER	Sample Customer · +256 700 000 000

II. Customer Complaint

Check engine light on; rough idle and occasional hesitation under acceleration.

III. Findings

01 P0302 — Cylinder 2 misfire detected

SEVERITY HIGH CONFIDENCE LIKELY

Evidence Stored DTC + live data

Observed Stored P0302. Live misfire counter on cylinder 2 climbs at idle; others stay flat.

Inference Combustion on cylinder 2 is inconsistent.

Not established Root cause not isolated (ignition vs fuel vs mechanical).

Next test Move cylinder 2 coil and plug to cylinder 3; re-read misfire counts to localise.

EVIDENCE MEDIA

- Live-data freeze frame: misfire counter
- Engine bay photo: cylinder 2 coil/plug

02 Charging voltage marginal at idle

SEVERITY MEDIUM CONFIDENCE LIKELY

Evidence Live data

Observed Alternator output 13.2V at idle, 13.9V at 2,500 rpm.

Inference Charging system is marginal at idle.

Not established Whether the battery or alternator is the weak link.

Next test Battery load test and alternator ripple test.

EVIDENCE MEDIA

No photo captured for this item

03 P0420 — Catalyst system efficiency below threshold

SEVERITY MEDIUM CONFIDENCE FURTHER TESTING REQUIRED

Evidence Stored DTC + freeze frame

Observed Stored P0420, freeze frame at 68 km/h and 84°C coolant. Downstream oxygen sensor waveform not recorded during this visit.

Inference Catalyst efficiency is below the monitored threshold, or the downstream sensor is biased.

Not established Whether the catalyst or the rear oxygen sensor is responsible. A scan alone cannot separate the two.

Next test Record upstream and downstream oxygen sensor waveforms on a road test and compare switching behaviour.

EVIDENCE MEDIA

Freeze-frame snapshot: P0420 conditions

04 Customer report – knocking from front suspension

SEVERITY LOW CONFIDENCE NOT CONFIRMED

Evidence Customer complaint + road test + visual inspection

Observed Complaint reported over broken surfaces. No knock reproduced on a 4 km road test. No fault code stored in any module.

Inference Cannot be attributed to an electronic system. Suspension noise sits outside the diagnostic scan scope.

Not established Whether the noise exists at all, and if so which component produces it.

Next test Physical suspension inspection on a lift by a mechanic. Not a scan-testable fault.

EVIDENCE MEDIA

No photo captured for this item

IV. Scope of Inspection

AREA	STATUS	METHOD
ECU faults	Checked	Diagnostic scan
ABS / SRS	Checked	Diagnostic scan
Transmission / live data	Checked	Diagnostic scan
Engine mechanical compression	Not tested	—
Chassis / frame	Not tested	—
Flood history	Limited	Visual / history only
Odometer authenticity	Not verified	—
Hidden body damage	Limited	Visual inspection
Road test	On request	Comprehensive PPI

V. Risk Assessment



Overall risk rating reflects computer diagnostic findings only. It is an evidence-based assessment, not a purchase recommendation.

VI. Inspector's Certification

I certify that the findings in this report reflect the diagnostic data collected during this inspection and were interpreted under the INSPECTFIRST reporting standard. This report is a diagnostic record, not a purchase recommendation.

A. Sample

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