SAC **Springfield Auto Care** EXAMPLE SHOP
service@springfield-auto-care.example

TECHNICIAN WORKSHEET · 5.0L CUMMINS V8 TURBO-DIESEL
RA-CM50-123456-20261028

2016 Nissan Titan XD · A61 Titan XD SV Crew Cab 5.0 Cummins diesel 4x4 · 4WD

1N6BA1F49GN123456

ODOMETER IN: 72,000 | DOOR-JAMB BUILD (MM/YY): | RO #: | TECHNICIAN / DATE:

A · RECALLS AND CAMPAIGNS TO VERIFY (DEALER PRINTOUT OR NHTSA.GOV)

16V-847 · Fuel tank breather tube not connected; fuel gauge can read wrong (2016) ☐ Open ☐ Done ☐ N/A

17V-268 · Seat belts · rear seat belt trim ☐ Open ☐ Done ☐ N/A

B · INSPECTION POINTS, IN PLAN ORDER

1. Crankshaft main bearing failure / broken crankshaft

Check now · Inside the range (55,000–91,000 mi, the middle half of 16 owner reports)

- Listen for knock at idle and under load ☐ OK ☐ Watch ☐ Fix
- Check the oil and filter for metal ☐ OK ☐ Watch ☐ Fix
- Scan for stored codes ☐ OK ☐ Watch ☐ Fix
- Knock: none / faint / loud

Parts (A61): Ask your parts supplier for the OE part number for this VIN.

2. Fuel filters every 10,000 miles (restriction codes)

Plan · Any mileage (Every 10,000 miles (both Stage 1 and Stage 2 filters))

- Scan for P008A / P00C6 / P0087 ☐ OK ☐ Watch ☐ Fix
- Check filter change records ☐ OK ☐ Watch ☐ Fix

Scan for: P008A, P00C6, P0087

Parts (A61): Ask your parts supplier for the OE part number for this VIN.

3. Two-stage turbocharger faults (P0299, P226C)

Watch · Any mileage (2016–2019 Titan XD diesel)

- Scan for P0299 / P226C / P00AF ☐ OK ☐ Watch ☐ Fix
- Inspect charge air cooler tubes and clamps ☐ OK ☐ Watch ☐ Fix
- Move the rotary control valve by hand for binding ☐ OK ☐ Watch ☐ Fix

Scan for: P0299, P226C, P00AF

Parts (A61): Ask your parts supplier for the OE part number for this VIN.

4. DEF / SCR faults ("DEF System Error", P207F, P2048)

Watch · Any mileage (2016–2019 Titan XD diesel (P207F bulletin: 2016–2018 built before April 12, 2018))

- Scan for P207F / P2048 ☐ OK ☐ Watch ☐ Fix
- Check DEF concentration with a refractometer ☐ OK ☐ Watch ☐ Fix

Scan for: P207F, P2048

Parts (A61): Ask your parts supplier for the OE part number for this VIN.

5. Emissions recall PD128 / PD129 (software, PM sensor)

Watch · Any mileage (2016–2019 Titan XD diesel (owners notified from February 2025))

- Check the VIN for open campaigns ☐ OK ☐ Watch ☐ Fix

Parts (A61): Ask your parts supplier for the OE part number for this VIN.

FACTORY MAINTENANCE DUE BY 102,000 MI (ASK FOR RECORDS)

Brake fluid · every 20,000 mi or 2 years · was due at 60,000 mi and by age (check records) · $129 ☐ Done (records) ☐ Due ☐ Quoted

C · ALSO REPORTED FOR THE 5.0L CUMMINS V8 TURBO-DIESEL, QUICK CHECKS

- **Stalling / loss of power** (16 complaints): Mostly the crankshaft failures and turbo limp mode described above.
- **Transmission** (11 complaints): Mixed transmission complaints; not tied to an engine bulletin.

WHAT TO SAY AT THE COUNTER (ADVISOR)

1. Crankshaft main bearing failure / broken crankshaft

NHTSA investigated 2016–2019 Titan XD diesels (PE23-020) and found that the crankshaft main bearings can fail, which can lead to a broken crankshaft. At 72,000 mi your car is in the mileage range where owners report it.

Ask: have you noticed knocking or rapping from the engine, or new vibration?

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2. Fuel filters every 10,000 miles (restriction codes)

Nissan says both diesel fuel filters must be changed every 10,000 miles or they can clog. Owners report it at all mileages, so it is worth a look at every visit. Our price is $360, before tax and shop supplies.

Ask: have you noticed whining from the Stage 1 fuel filter module, or P008A, P00C6 or P0087?

Adjust after the inspection. The report is not a diagnosis or a guarantee, so say what the technician found, not what the report predicts.

NOTES FOR THE ADVISOR

Record findings here (OK / Watch / Fix and measurements); the advisor adjusts the quote before the handout is printed or sent.