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

2016 Nissan Titan XD at 72,000 mi

1N6BA1F49GN123456

MODEL / CHASSIS	ENGINE	MILEAGE	DRIVETRAIN
Titan XD · A61 Titan XD SV Crew Cab 5.0 Cummins diesel 4x4	Cummins 5.0L V8 turbo-diesel (Nissan Titan XD)	72,000 mi	4WD
BUILD MONTH	**REPORT DATE**	**MODE**	**PREPARED FOR**
Not entered (door jamb)	October 28, 2026	Shop	Sample Owner

VIN check: check digit valid; model-year code 'G' = 2016, matches the year entered. The VIN doesn't record the build month. Sample report: synthetic VIN.

1 · SUMMARY

What this car needs, in order

Each item compares this car's mileage with when owners and shops report the part failing. It is not an inspection: our technician decides what the car actually needs.

1
inspection recommended now

1
to plan in the next 30,000 miles · plus 1 factory maintenance item

3
to watch or check at each service

Safety recalls NHTSA lists for this model year (2 of 3)

- **16V-847** · Fuel system · diesel tank breather tube: The fuel tank breather tube may not have been connected at the factory, so the fuel gauge and distance-to-empty can read wrong and the truck can run out of fuel. Dealers inspect and repair the tube, tank or sending unit.
- **17V-268** · Seat belts · rear seat belt trim: In a crash, a rear passenger's head can hit the seat belt D-ring bolt cap, raising the risk of injury.

A model-year list, not a VIN check. The full report lists the others. Repairs are free at a Nissan dealer if open. Check this VIN at nhtsa.gov/recalls.

Step 0 · Free: run the VIN at nhtsa.gov/recalls and ask a Nissan dealer for a campaign printout, including 16V-847. Read the build month (MM/YY) on the driver's door-jamb label.

Recommended now at the next service — $140

Inspection: check now, while it's cheaper to fix — $140

Crankshaft main bearing failure / broken crankshaft: Inside the range (55,000–91,000 mi, the middle half of 16 owner reports)

Known weak point for this engine, not a finding on your car. The inspection shows whether yours has early signs.

inspection EXAMPLE

Next 12 months up to about 84,000 mi — $360

Fuel filters every 10,000 miles (restriction codes) — $360

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

our price EXAMPLE

Within the next 30,000 miles up to 102,000 mi

Nothing else enters its reported range in this window.

Watch inspect at each service, fix on condition, or optional

Two-stage turbocharger faults (P0299, P226C) — $3,100

Any mileage (2016–2019 Titan XD diesel) · Inspect at each service; fix at the first sign

our price EXAMPLE

DEF / SCR faults ("DEF System Error", P207F, P2048) — $110

Any mileage (2016–2019 Titan XD diesel (P207F bulletin: 2016–2018 built before April 12, 2018)) · Inspect at each service; fix at the first sign

our price EXAMPLE

Emissions recall PD128 / PD129 (software, PM sensor)

Free if covered check the VIN

Any mileage (2016–2019 Titan XD diesel (owners notified from February 2025)) · Ask for this check at every service

Recommended now

$140

Springfield Auto Care prices (example)

Planned through 102,000 mi

$629

Now + next 12 months + next 30,000 miles, with the factory maintenance on this report if the records don’t show it done. Excludes “watch” and optional items.

Prices are Springfield Auto Care's estimates for typical parts and labor. They don't include tax, shop supplies or disposal fees, and may change after inspection or if part prices change. Not a written repair estimate: Springfield Auto Care confirms the price and gets your OK before any work.

Bundled jobs are priced together because the labor overlaps. Routine service (oil, brakes, tires) isn't included; factory fluid and spark plug intervals are listed below.

FACTORY MAINTENANCE

Scheduled maintenance from 72,000 mi to 102,000 mi

The maker's normal schedule for this car. Service history isn't known here, so an item is shown at its next interval mark; skip it if the records show it was done.

ITEM	INTERVAL	THIS CAR	OUR PRICE
Brake fluid Nissan sets brake fluid at 24 months; the mileage figure follows that model year's oil-service interval.	every 20,000 mi or 2 years	**Was due at 60,000 mi and by age (check records)** [M1][M2]	**$129**

M1. Nissan USA official maintenance schedule lookup: 2018 Titan XD (component pages, Standard Driving Conditions) OFFICIAL https://maintenance-schedules.nissanusa.com/maintenance-schedules/2018/titan-xd/components/engine-coolant/

M2. Nissan USA official maintenance schedule lookup: 2016 Titan XD (component pages, Standard Driving Conditions) OFFICIAL https://maintenance-schedules.nissanusa.com/maintenance-schedules/2016/titan-xd/components/engine-coolant/

WHERE 72K SITS FOR EACH WEAK POINT

#	WEAK POINT	REPORTED RANGE	THIS CAR
1	Crankshaft main bearing failure / broken crankshaft	55,000–91,000 mi (middle half of 16 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA	Inside the range
2	Two-stage turbocharger faults (P0299, P226C)	2016–2019 Titan XD diesel OFFICIAL	Any mileage
3	DEF / SCR faults ("DEF System Error", P207F, P2048)	2016–2019 Titan XD diesel (P207F bulletin: 2016–2018 built before April 12, 2018) OFFICIAL	Any mileage
4	Fuel filters every 10,000 miles (restriction codes)	Every 10,000 miles (both Stage 1 and Stage 2 filters) OFFICIAL	Any mileage
5	Emissions recall PD128 / PD129 (software, PM sensor)	2016–2019 Titan XD diesel (owners notified from February 2025) OFFICIAL	Any mileage

Colors compare mileage with reported failures, not the car's condition. Red: past the range. Amber: inside or approaching. Green: below, or not listed for a recall.

2 · RECALLS AND BULLETINS

Recalls to check for this 2016 Nissan Titan XD

Safety recall repairs are free at Nissan dealers. Nothing here can tell whether a recall is open or already done on this VIN; only the official VIN lookup or a dealer can.

Official VIN check (2 minutes)

1. Go to nhtsa.gov/recalls and enter 1N6BA1F49GN123456.
2. Note every recall shown as “Recall incomplete” and keep a screenshot.
3. Ask a Nissan dealer for a campaign printout; it also lists completed campaigns.

5.0L CUMMINS V8 TURBO-DIESEL RECALLS WE TRACK

16V-847 · Fuel tank breather tube not connected; fuel gauge can read wrong (2016)

NHTSA lists this model and year: check by VIN

The temporary breather tube cap may not have been removed at the factory, so the tank is not vented and the fuel gauge and distance-to-empty can be wrong. The truck can run out of fuel. Free inspection and repair of the breather tube, tank or sending unit. OFFICIAL [12]

☐ VIN checked ☐ Open: booked with dealer ☐ Completed (printout kept)

EVERY RECALL NHTSA LISTS FOR THE 2016 NISSAN TITAN XD (3)

RECALL	COMPONENT	WHAT CAN HAPPEN (NHTSA, SHORTENED)
16V-847 5.0L Cummins V8 turbo-diesel tracked	Fuel system · diesel tank breather tube	The fuel tank breather tube may not have been connected at the factory, so the fuel gauge and distance-to-empty can read wrong and the truck can run out of fuel. Dealers inspect and repair the tube, tank or sending unit. Details
17V-268	Seat belts · rear seat belt trim	In a crash, a rear passenger's head can hit the seat belt D-ring bolt cap, raising the risk of injury. Details
18V-240	Labels · load capacity	Trucks with factory or dealer accessories lack a label showing the reduced load capacity, so they could be overloaded. Nissan provides the label. Details

Source: NHTSA recalls API, fetched 2026-10-28 and combined across NHTSA model names: TITAN. Safety categories (air bags, fire, brakes, stalling, roll-away and loss of control) are listed first; listings whose NHTSA text names another engine, or an aftermarket part, go last. OFFICIAL

SERVICE ACTIONS, BULLETINS AND WARRANTY PROGRAMS

Manufacturer bulletins and warranty programs for this engine are cited on each weak point in section 4, where they apply.

4 · THE 5 WEAK POINTS

Each weak point, one card each

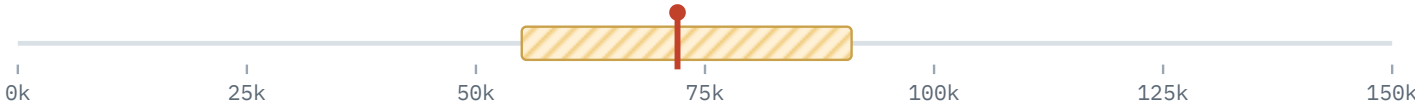
Every figure carries its source. Retailer part numbers are shown only when the retailer lists them for this chassis (A61).

1 Crankshaft main bearing failure / broken crankshaft

Inside the range

Severity: Critical: rare, but can badly damage the engine · 37 mentions in counted NHTSA complaints COMPUTED FROM NHTSA DATA

At 72,000 mi this car is inside the reported range (55,000–91,000 mi (middle half of 16 owner complaints that state a mileage)), 17,000 miles past where reports start. Range: 55,000–91,000 mi (middle half of 16 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]



Applies to: NHTSA found half of the failures by about 60,000 miles and far fewer after 80,000; failure rates fell each model year

WHAT FAILS OFFICIAL [2][3]

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. The truck loses drive power and cannot be restarted; the repair is a new engine. Many trucks showed knocking, vibration, a check-engine light or poor running before the failure. NHTSA closed the case in 2025 without a recall.

SYMPTOMS

- Knocking or rapping from the engine
- New vibration
- Check-engine light or poor running
- Metal in the oil

IF IT'S LEFT TOO LONG

The engine can stop at speed and not restart; the fix is an engine replacement.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Stop driving at the first knock and have it checked. Keep oil changes on time and consider an oil analysis on a used truck.

ESTIMATED REPAIR COST

No published price for an early check	**Our price is in the plan above** ask us for a written quote
No published price; engine replacement	**No published price** reported range for the bill after a failure

PARTS FOR A61

- Ask your parts supplier for the OE part number for this VIN.

QUESTIONS TO ASK US

- Any knocking or vibration?
- Engine ever replaced?
- Oil change intervals?

2 Two-stage turbocharger faults (P0299, P226C)

Any mileage

Severity: High: overheating, stalls, limp mode or a big bill · 12 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (2016–2019 Titan XD diesel), so mileage doesn't say much here. Range: 2016–2019 Titan XD diesel OFFICIAL [4][5]

WHAT FAILS OFFICIAL [4][5]

The 5.0 Cummins has two turbochargers. A boost-pressure code (P0299) can mean the high pressure turbo needs replacing or the ECM needs an update. A slow-boost code (P226C) with a sticking rotary turbine control valve means the low pressure turbo is replaced. Both turbos come off together for either job.

SYMPTOMS

- Check-engine light
- Low power or limp mode
- P0299 or P226C stored

IF IT'S LEFT TOO LONG

Low power and limp mode; a failing turbo can also send debris into the engine.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Check air filter and charge pipes first, then the ECM part number, before buying a turbo.

ESTIMATED REPAIR COST

Labor only, 4.4–4.6 h Nissan warranty time plus one turbocharger	**Our price is in the plan above** ask us for a written quote
Labor only, 4.4–4.6 h Nissan warranty time plus one turbocharger	**$440–$740** OUR ESTIMATE [4][10] labor only, parts extra

Where the numbers come from: Estimate: Nissan warranty labor time of 4.4–4.6 h (bulletin [4]) × $100–$160/h independent-shop labor rate [10]. Parts are extra unless stated; check the VIN for open warranty coverage first. Labor plus the turbo part; Nissan time is 4.6 h for the high pressure and 4.4 h for the low pressure turbo.

PARTS FOR A61

- Ask your parts supplier for the OE part number for this VIN.

QUESTIONS TO ASK US

- Any limp mode or boost codes?
- Turbo replaced?

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

Any mileage

Severity: Medium: leaks and wear · 11 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (2016–2019 Titan XD diesel (P207F bulletin: 2016–2018 built before April 12, 2018)), so mileage doesn't say much here. Range: 2016–2019 Titan XD diesel (P207F bulletin: 2016–2018 built before April 12, 2018) OFFICIAL [6][7]

WHAT FAILS OFFICIAL [6][7]

The truck can show "DEF System Error" with P207F (DEF quality sensor), or set P2048 (DEF injector circuit low). If the DEF itself tests good, Nissan reprograms the ECM.

SYMPTOMS

ESTIMATED REPAIR COST

Labor only, 0.8 h Nissan warranty time	**Our price is in the plan above** ask us for a written quote

- "DEF System Error" message
- Check-engine light
- Speed limit warning if ignored

IF IT'S LEFT TOO LONG

Emissions faults can count down to a speed limit.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Test the DEF concentration first, then ask for the ECM update before replacing DEF parts.

No published price	**No published price** reported range for the bill after a failure

Where the numbers come from: Estimate: Nissan warranty labor time of 0.8 h (bulletin [6]) × $100–$160/h independent-shop labor rate [10]. Parts are extra unless stated; check the VIN for open warranty coverage first.

PARTS FOR A61

- Ask your parts supplier for the OE part number for this VIN.

QUESTIONS TO ASK US

- Any DEF warnings?
- ECM updates done?

---

4 Fuel filters every 10,000 miles (restriction codes)

Any mileage

Severity: Medium: leaks and wear · 0 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (Every 10,000 miles (both Stage 1 and Stage 2 filters)), so mileage doesn't say much here. Range: Every 10,000 miles (both Stage 1 and Stage 2 filters) OFFICIAL [8]

WHAT FAILS OFFICIAL [8]

Nissan says both diesel fuel filters must be changed every 10,000 miles or they can clog. A clogged filter sets P008A, P00C6 or P0087 and the Stage 1 filter module can whine. Nissan does not cover a failed Stage 1 module if the filters were not changed on time.

SYMPTOMS

- Whining from the Stage 1 fuel filter module
- P008A, P00C6 or P0087
- Low power

IF IT'S LEFT TOO LONG

Fuel starvation; the filter module may need replacing at your cost.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Change both filters every 10,000 miles and keep the records.

ESTIMATED REPAIR COST

Fuel filter / water separator replacement (RepairPal)	**Our price is in the plan above** ask us for a written quote
No published price for the Stage 1 module	**No published price** reported range for the bill after a failure

PARTS FOR A61

- Ask your parts supplier for the OE part number for this VIN.

QUESTIONS TO ASK US

- Fuel filters changed every 10,000 miles?
- Any whining from under the truck?

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

Any mileage

Severity: Medium: leaks and wear · 0 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (2016–2019 Titan XD diesel (owners notified from February 2025)), so mileage doesn't say much here. Range: 2016–2019 Titan XD diesel (owners notified from February 2025) OFFICIAL [9]

WHAT FAILS OFFICIAL [9]

Under an agreement between Cummins and the California Air Resources Board, Nissan updates the emissions software on 2016–2019 Titan diesels and adds a particulate matter sensor on 2016–2017 trucks. Nissan says it has no effect on safety.

SYMPTOMS

- None; the truck may have an open campaign

IF IT'S LEFT TOO LONG

An open emissions recall can block registration in some states.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Check the VIN for PD128 / PD129 and get it done at a Nissan dealer.

ESTIMATED REPAIR COST

Free under emission recall PD128 / PD129	**Free if covered** OFFICIAL [9] published independent-shop range
No published price	**No published price** reported range for the bill after a failure

PARTS FOR A61

- Ask your parts supplier for the OE part number for this VIN.

QUESTIONS TO ASK US

- Emission recall PD128 / PD129 done?

5 · ALSO REPORTED, NOT RANKED

Other themes in 5.0L Cummins V8 turbo-diesel owner complaints

Every NHTSA complaint theme with 10 or more counted reports is either a weak point above or explained here.

THEME	COMPLAINTS	WHY IT ISN'T A WEAK POINT
Stalling / loss of power	16	Mostly the crankshaft failures and turbo limp mode described above.
Transmission	11	Mixed transmission complaints; not tied to an engine bulletin.

How this report is built

Inputs. VIN, model year, model, mileage and build month (if entered). Model and engine are checked with NHTSA's vPIC decoder.

Mileage positions. Below: more than 10,000 miles before the reported range. Approaching: within 10,000. Inside: in the range, or past the start of an open-ended range. Past: beyond the top of the range. These bands are our rules, not an industry standard.

The plan. Critical items inside or past their range go first; high-severity items follow, and jobs that share labor are bundled. At most three jobs land in “Recommended now”. Leaks that are cheap to watch are fixed on condition; inspections are asked for at each service.

Costs. Published independent-shop ranges from shop quotes, retailer prices and owner reports. Shop prices come from the issuing shop. The worst-case cost of every item failing is not shown: it isn't an expected cost.

Labels. `OFFICIAL` NHTSA/Nissan documents · `SHOP/RETAILER` parts prices and shop articles · `FORUM/BLOG` owner forums and blogs · `COMPUTED FROM NHTSA DATA` our analysis of NHTSA data · `OUR ESTIMATE` ours.

NHTSA complaint data. Pulled Oct 27, 2026 from NHTSA's complaints API for 2016–2019 Titan XD complaints that name the diesel or Cummins: 87 complaints. Some of these nameplates were sold with other engines too; for those we kept only complaints whose text names this engine, which under-counts. Themes are keyword matches on the complaint text. `COMPUTED FROM NHTSA DATA`

THEME	COMPLAINTS	IN THIS REPORT
Engine failure / crankshaft / knock	37	Item 1
Stalling / loss of power	16	Also reported
Turbo / boost	12	Item 2
DEF / SCR	11	Item 3
Transmission	11	Also reported
High pressure fuel pump	6	—
Fuel filters / fuel restriction	0	Item 4
Fuel gauge	0	—

Limits: complaints are self-reported and not adjusted for cars sold; keyword matching over- and under-counts; owners rarely file safety complaints about oil seeps, so leaks look rarer than they are.

SOURCES

1. NHTSA owner complaints for 2016–2019 Titan XD complaints that name the diesel or Cummins, pulled Oct 27, 2026 (ODI numbers in the cost notes) `OFFICIAL`
https://www.nhtsa.gov/report-a-safety-problem#complaints

2. NHTSA Office of Defects Investigation: PE23-020 close resume, 2016–2019 Titan XD 5.0L V8 diesel, loss of motive power due to broken crankshaft (opened Nov 15, 2023; closed Jun 27, 2025 without a manufacturer action; 550 incidents) `OFFICIAL`
https://static.nhtsa.gov/odi/inv/2023/INCLA-PE23020-11814.pdf

3. NHTSA Office of Defects Investigation: PE23-020 information request to Nissan (Jan 26, 2024): crankshaft, bearings and bearing caps; failures cause a stall with little or no warning and need an engine replacement `OFFICIAL`
https://static.nhtsa.gov/odi/inv/2023/INIM-PE23020-13873.pdf

4. Nissan NTB19-017: 2016–2019 Titan XD Diesel: MIL on with DTC P0299 (boost pressure): replace the high pressure turbocharger or reprogram the ECM (FRT 4.6 h for the turbo) (2019-02-25), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2019/MC-10154687-9999.pdf

5. Nissan NTB20-071: 2016–2019 Titan XD Diesel: MIL on with DTC P226C (turbo boost control slow response) and a binding rotary turbine control valve: replace the low pressure turbocharger (FRT 4.4 h) (2020-10-09), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2020/MC-10182361-0001.pdf

6. Nissan NTB17-060b: 2016–2018 Titan XD Cummins 5.0 built before April 12, 2018: DTC P207F (DEF quality sensor) and "DEF System Error": reprogram the ECM (FRT 0.8 h) (2018-09-13), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2018/MC-10145552-9999.pdf

7. Nissan NTB19-011a: 2016–2019 Titan XD Cummins 5.0: MIL on with DTC P2048 (reductant injection valve circuit low): reprogram the ECM (2020-02-05), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2020/MC-10172240-0001.pdf

8. Nissan NTB19-007: 2016–2019 Titan XD Diesel: Stage 1 and Stage 2 fuel filters must be replaced every 10,000 miles or a restriction may develop (DTCs P008A, P00C6, P0087, whining Stage 1 module) (2019-01-25), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2019/MC-10153032-9999.pdf

9. Nissan Campaign PD128 / PD129: Cummins NOx voluntary emission recall: 2016–2017 Titan diesel get updated emissions software and a particulate matter sensor; 2018–2019 get the software update (2025-01-31), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2025/MC-11014078-0001.pdf

10. Tekmetric: average auto repair labor rates by state, 2026 SHOP/RETAILER
https://tours.tekmetric.com/answers/average-auto-repair-labor-rates-by-state-2026

12. NHTSA recall records: 16V-847 (2016 Titan XD diesel built Aug 7, 2015 to Sept 1, 2016: fuel tank breather tube cap left on, so the fuel gauge and distance-to-empty can read wrong), checked Oct 27, 2026 OFFICIAL
https://www.nhtsa.gov/recalls?nhtsaId=16V847000

11. RepairPal: Nissan Titan XD fuel filter / water separator replacement cost, via search extract Oct 28, 2026 SHOP/RETAILER
https://repairpal.com/estimator/nissan/titan-xd/fuel-filter-water-separator-replacement-cost

This report contains no affiliate links; retailer prices are quoted as price sources only. Found an error? Email hello@repairahead.com.

PLEASE READ

Important

Based on public records and published repair costs. Not a diagnosis or a guarantee. Your technician's inspection decides what your car needs. Confirm recalls with a dealer using your VIN.

Informational only. This report is not a mechanical inspection, a diagnosis, or professional, legal or financial advice. It was issued by Springfield Auto Care using RepairAhead data; the inspection findings and prices are the shop's.

Reported ranges and estimates, not predictions

Failure mileages are reported ranges compiled from public owner complaints, manufacturer bulletins, recalls and repair-shop reports. Costs are estimates. Parts can fail earlier, later or not at all, and other problems can occur. Statistics from owner complaints describe past reports to NHTSA; NHTSA has not reviewed or endorsed this analysis.

Safety issues go to a dealer

If you notice overheating, a burning or fuel smell, smoke, a brake-assist problem, stalling or loss of power, pull over when it's safe and contact a Nissan dealer or qualified shop. Safety recall repairs are free at Nissan dealers. Confirm recalls for this VIN at nhtsa.gov/recalls.

No warranty

Provided “as is”, without warranties of any kind, under the Terms of Use at repairahead.com/terms.

Trademarks and independence

Not affiliated with Nissan Motor Co., Ltd. or Nissan North America, Inc. Nissan and model names are trademarks of Nissan Motor Co., Ltd., used only to identify vehicles.
