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

2014 Nissan Titan at 110,000 mi

1N6AA0EC4EN123456

MODEL / CHASSIS	ENGINE	MILEAGE	DRIVETRAIN
Titan · A60 Titan SV Crew Cab 4x4 (5.6L V8)	Nissan VK56DE / VK56VD 5.6L V8	110,000 mi	4WD
BUILD MONTH	**REPORT DATE**	**MODE**	**PREPARED FOR**
Not entered (door jamb)	October 27, 2026	Shop	Sample Owner

VIN check: check digit valid; model-year code 'E' = 2014, 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

0
to plan in the next 30,000 miles · plus 3 factory maintenance items

1
to watch or check at each service

Safety recalls NHTSA lists for this model year (1 of 2)

- **20V-188** · Air bags · driver frontal inflator: The driver air bag inflator may not work properly or may rupture in a crash and throw metal fragments.

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. 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**

Catalytic converters in the exhaust manifolds (P0420 / P0430): Past the range (63,000–96,000 mi, the middle half of 51 owner reports) · if it fails: $2,850–$4,750

inspection EXAMPLE

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

Next 12 months up to about 122,000 mi

Nothing scheduled here.

Within the next 30,000 miles up to 140,000 mi

Nothing else enters its reported range in this window.

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

Oil leak at the right side block ball plug **$50**

Past the range (50,000–67,000 mi, the middle half of 15 owner reports) · Inspect at each service; fix at the first sign

our price EXAMPLE

Recommended now

$140

Springfield Auto Care prices (example)

Planned through 140,000 mi

From $697

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 110,000 mi to 140,000 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
Spark plugs Iridium/platinum plugs; replace early if gap exceeds spec.	every 105,000 mi	**Was due at 105,000 mi (check records)** [M1][M2][M3]	**$249**
Engine coolant First change at 105,000 mi or 84 months (factory blue coolant), then every 75,000 mi or 60 months.	first at 105,000 mi, then every 75,000 mi or 5 years	**Was due at 105,000 mi and by age (check records)** [M1][M2][M3][M4]	**From $179**
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 100,000 mi and by age (check records)** [M1][M2][M3]	**$129**
Automatic transmission fluid Nissan normal schedule says inspect only; replace every 30,000 mi / 24 months only under severe use (towing, rough or muddy roads).	no fixed interval	— [M1][M2]	—

M1. Nissan USA official maintenance schedule lookup: 2015 Titan (component pages, Standard Driving Conditions) OFFICIAL
https://maintenance-schedules.nissanusa.com/maintenance-schedules/2015/titan/components/engine-coolant/

M2. Nissan USA official maintenance schedule lookup: 2012 Armada (component pages, Standard Driving Conditions) OFFICIAL
https://maintenance-schedules.nissanusa.com/maintenance-schedules/2012/armada/components/engine-coolant/

M3. Infiniti USA official maintenance schedule lookup: 2020 QX80 (component pages, Standard Driving Conditions) OFFICIAL
https://maintenance-schedules.infinitiusa.com/maintenance-schedules/2020/qx80/components/engine-coolant/

M4. 2011 Nissan Service and Maintenance Guide (Nissan North America, Pub. MB1E 0ALLU0) OFFICIAL
https://archive.org/details/manualzilla-id-6037219

M5. 2009 Nissan Service and Maintenance Guide (Nissan North America, Pub. MB9E-0ALLU3) OFFICIAL
https://archive.org/details/manualsonline-id-da55dbac-c063-433d-9f2d-509baa711699

WHERE 110K SITS FOR EACH WEAK POINT

#	WEAK POINT	REPORTED RANGE	THIS CAR
1	Catalytic converters in the exhaust manifolds (P0420 / P0430)	63,000–96,000 mi (middle half of 51 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA	Past the range
2	Oil leak at the right side block ball plug	50,000–67,000 mi (middle half of 15 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA	Past the range

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 2014 Nissan Titan

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 1N6AA0EC4EN123456.
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.

5.6L VK56 V8 RECALLS WE TRACK

Other 5.6L VK56 V8 recalls we track, not listed by NHTSA for this model and year: 14V-683 (fuel pressure sensor may loosen and leak fuel (2012–2013 QX56, 2014–2015 QX80)).

EVERY RECALL NHTSA LISTS FOR THE 2014 NISSAN TITAN (2)

RECALL	COMPONENT	WHAT CAN HAPPEN (NHTSA, SHORTENED)
20V-188	Air bags · driver frontal inflator	The driver air bag inflator may not work properly or may rupture in a crash and throw metal fragments. Details
13V-645	Tire and loading label	The tire and loading label overstates how much the truck can carry, which could lead to overloading. Details

Source: NHTSA recalls API, fetched 2026-10-27 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 2 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 (A60). Left out because they apply to other models, years, engine sizes or body codes: Cylinder #7 scuffing (knock or tick), 2017–2019 VK56VD; Fuel pump failure (2020–2021 Armada / QX80 recall).

1 Catalytic converters in the exhaust manifolds (P0420 / P0430)

Past the range

Severity: High: overheating, stalls, limp mode or a big bill · 307 mentions in counted NHTSA complaints COMPUTED FROM NHTSA DATA

At 110,000 mi this car is past the reported range (63,000–96,000 mi (middle half of 51 owner complaints that state a mileage)). If the original parts are still fitted, have them checked and plan for them. Range: 63,000–96,000 mi (middle half of 51 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]



Applies to: Mostly first-generation VK56DE trucks (2004–2015)

WHAT FAILS FORUM/BLOG [3][4]

The front catalytic converters are built into the exhaust manifolds. Misfires, rich running or overheating can break up the converter core, and the debris can be pulled back into the cylinders. The manifolds can also crack and leak.

SYMPTOMS

- Check-engine light with P0420 or P0430
- Ticking exhaust leak at cold start

IF IT'S LEFT TOO LONG

A broken-up converter can damage the engine.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Fix misfires quickly; replace failing manifold converters before they break up.

ESTIMATED REPAIR COST

No published price	**Our price is in the plan above** ask us for a written quote
Owner-reported repair bills in NHTSA complaints (n=10)	**$2,850–$4,750** COMPUTED FROM NHTSA DATA [1] reported range for the bill after a failure

Where the numbers come from: Computed from 10 NHTSA owner complaints that quote a repair bill for this problem (middle half of the bills; median $3,500). Examples: ODI 10704193, 10420286, 10438791, 11565845. Owner-reported, often dealer prices; not shop quotes.

PARTS FOR A60

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

QUESTIONS TO ASK US

- Any catalyst codes or exhaust ticking?

2 Oil leak at the right side block ball plug

Past the range

Severity: Medium: leaks and wear · 63 mentions in counted NHTSA complaints COMPUTED FROM NHTSA DATA

At 110,000 mi this car is past the reported range (50,000–67,000 mi (middle half of 15 owner complaints that state a mileage)). If the original parts are still fitted, have them checked and plan for them. Range: 50,000–67,000 mi (middle half of 15 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]



Applies to: 2004–2018 Titan, Armada and NV with the VK56DE

WHAT FAILS OFFICIAL [5]

A ball plug in the right side of the block, behind the alternator, can leak oil. Nissan seats the plug with a punch; the block is not replaced.

SYMPTOMS

- Oil wet behind the alternator
- Oil drips on the right side

IF IT'S LEFT TOO LONG

A steady leak lowers the oil level.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Quick fix once found; check this spot before chasing bigger leaks.

ESTIMATED REPAIR COST

Labor only, 0.3 h Nissan warranty time	**Our price is in the plan above** ask us for a written quote
Labor only, 0.3 h Nissan warranty time	**$30–$50** OUR ESTIMATE [5][7] labor only, parts extra

Where the numbers come from: Estimate: Nissan warranty labor time of 0.3 h (bulletin [5]) × $100–$160/h independent-shop labor rate [7]. Parts are extra unless stated; check the VIN for open warranty coverage first.

PARTS FOR A60

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

QUESTIONS TO ASK US

- Any oil drips?

5 · ALSO REPORTED, NOT RANKED

Other themes in 5.6L VK56 V8 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
Brakes	2,128	Brake complaints (pads, rotors, ABS) on these heavy trucks; not an engine fault.
Stalling / loss of power	464	Mixed causes; includes the 2004–2006 ECM relay recall (10V-517) and the 2020–2021 fuel pump recall.

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 28, 2026 from NHTSA's complaints API for All Titan, Armada, QX56, QX80 and M56 complaints in those years, Titan XD complaints that do not mention the diesel, and NV van, 2008–2010 Pathfinder and Q70 / Q70L complaints that name the V8 or 5.6 (NV complaints rarely name the engine, so the vans barely appear in the counts; filtered nameplates under-count): 5,820 complaints. Some of these nameplates were sold with other engines too. For some we kept only complaints whose text names this engine (which under-counts); for others we left out complaints that name another engine or a hybrid (so a few about other engines can remain). Themes are keyword matches on the complaint text. `COMPUTED FROM NHTSA DATA`

THEME	COMPLAINTS	IN THIS REPORT
Brakes	2,128	Also reported
Stalling / loss of power	464	Also reported
Catalytic converter / exhaust manifold	307	Item 1
Engine knock / tick	133	Other years or engine sizes
Fuel pump	68	Other years or engine sizes
Oil leak	63	Item 2

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 2004–2024 Titan (gas), Titan XD (not diesel), 2004–2024 Armada, 2004–2013 Infiniti QX56, 2014–2024 QX80 and 2011–2013 M56, plus V8 complaints for the 2012–2021 NV vans, 2008–2010 Pathfinder and 2014–2019 Q70 / Q70L, pulled Oct 27–28, 2026 (ODI numbers in the cost notes) `OFFICIAL`
https://www.nhtsa.gov/report-a-safety-problem#complaints

2. Nissan NTB19-057a: Engine knock or tick noise (VK56VD): borescope #7 cylinder for scuffing, replace short block if scuffed; 2017–2019 Armada, Titan, Titan XD, NV (2020-04-03), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2020/MC-10174416-0001.pdf

3. Cherish Your Car: Nissan 5.6 liter engine problems (cat reversion, timing chain, cylinder #7 scuffing) `FORUM/BLOG`
https://www.cherishyourcar.com/nissan-5-6-liter-engine-problems/

4. 8020 Automotive: the 3 most common Nissan VK56DE 5.6 V8 engine problems (timing chain, exhaust manifold, oil leaks) FORUM/BLOG
https://8020automotive.com/the-3-most-common-nissan-vk56de-5-6-v8-engine-problems/

5. Nissan NTB10-104c: Engine oil leak at the right side block ball plug (VK56DE), 2004–2018 Titan, Armada, NV (2018-07-31), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2018/MC-10143827-9999.pdf

6. NHTSA recall records: 21V-373 (2020–2021 Armada / QX80 fuel pump) and 14V-683 (QX56 / QX80 fuel pressure sensor), checked Oct 27, 2026 OFFICIAL
https://www.nhtsa.gov/recalls?nhtsaId=21V373000

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

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

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