2021 Chevrolet Trailblazer at 56,000 mi

KL79MMS28MB123456

MODEL / CHASSIS	ENGINE	MILEAGE	DRIVETRAIN
Trailblazer · Trailblazer LS 1.2L turbo FWD	GM 1.2L and 1.3L turbocharged three-cylinder (LIH, LBP, L3T)	56,000 mi	FWD
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 'M' = 2021, 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.

0	0	3
jobs recommended now	to plan in the next 30,000 miles	to watch or check at each service

Safety recalls NHTSA lists for this model year (1 of 4)

- **20V-588** · Service brakes: Contamination at a sensor connector can interrupt the electronic brake boost, so the brake pedal needs much more effort.

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

Step 0 · Free: run the VIN at nhtsa.gov/recalls and ask a Chevrolet dealer for a campaign printout, including 20V-588. Read the build month (MM/YY) on the driver's door-jamb label.

Recommended now at the next service

Good news: nothing on the 1.2L / 1.3L turbo I3 (LIH / LBP / L3T) watch list is due at this mileage. Worth a fresh look at about 66,000 mi.

Next 12 months up to about 67,000 mi

Nothing scheduled here.

Within the next 30,000 miles up to 86,000 mi

Nothing else enters its reported range in this window.

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

Turbocharger failure (2021 1.2L: free under GM special coverage) — `Free if covered` check the VIN

Inside the range (26,000–66,000 mi, the middle half of 36 owner reports) · Inspect at each service; fix at the first sign

Oil pump debris and oil pressure codes (P0521, P06DD, P06DE) — **Ask us for a quote**

Any mileage (2020–2021 and 2023–2025 1.2L engines in the GM notes) · Inspect at each service; fix at the first sign

Evaporative emission purge pump failure (2020–2021) — `Free if covered` check the VIN

Any mileage (2020–2021 Encore GX and 2021 Trailblazer: purge pump covered to 15 years / 150,000 miles) · Ask for this check at every service

Recommended now

No repairs due now

Springfield Auto Care prices (example)

Planned through 86,000 mi

No repairs planned

Now + next 12 months + next 30,000 miles. 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

The maker's maintenance schedule isn't on this report

This report doesn't include the maker's scheduled maintenance for this car yet, so brake fluid, spark plugs, coolant and transmission fluid aren't listed even when they're due. Check the service records and the maker's schedule for this car.

WHERE 56K SITS FOR EACH WEAK POINT

#	WEAK POINT	REPORTED RANGE	THIS CAR
1	Turbocharger failure (2021 1.2L: free under GM special coverage)	26,000–66,000 mi (middle half of 36 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA	Inside the range
2	Oil pump debris and oil pressure codes (P0521, P06DD, P06DE)	2020–2021 and 2023–2025 1.2L engines in the GM notes OFFICIAL	Any mileage
3	Evaporative emission purge pump failure (2020–2021)	2020–2021 Encore GX and 2021 Trailblazer: purge pump covered to 15 years / 150,000 miles 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 2021 Chevrolet Trailblazer

Safety recall repairs are free at Chevrolet 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 KL79MMS28MB123456.
2. Note every recall shown as “Recall incomplete” and keep a screenshot.
3. Ask a Chevrolet dealer for a campaign printout; it also lists completed campaigns.

1.2L / 1.3L TURBO I3 (LIH / LBP / L3T) RECALLS WE TRACK

20V-588 · Electronic brake boost can cut out (2021 Trailblazer, 2020–2021 Encore GX)

NHTSA lists this model and year: check by VIN

Contamination at a sensor connector can interrupt the electronic brake boost, so the pedal needs much more effort. Dealers repair the connection, free. OFFICIAL [12]

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

Other 1.2L / 1.3L turbo I3 (LIH / LBP / L3T) recalls we track, not listed by NHTSA for this model and year: 23V-744 (instrument display can go blank (2024 Trax, Envista, Encore GX)).

EVERY RECALL NHTSA LISTS FOR THE 2021 CHEVROLET TRAILBLAZER (4)

RECALL	COMPONENT	WHAT CAN HAPPEN (NHTSA, SHORTENED)
20V-588 1.2L / 1.3L turbo I3 (LIH / LBP / L3T) tracked	Service brakes	Contamination at a sensor connector can interrupt the electronic brake boost, so the brake pedal needs much more effort. Details
21V-440	Equipment · mechanical · accessory scissor/screw/bottle jack/lift	The spare-tire jack can break if it is not placed as the owner's manual shows, and the vehicle can drop on someone working under it. Details
20V-537	Seats · critical fasteners	The rear bolts of a front seat may be missing, so the seat can move in a crash. Details
20V-295	Tires	Cars with the optional 17-inch sport terrain tires: the tire label lacks the size and pressure information, so owners may set the wrong pressures. Details

Source: NHTSA recalls API, fetched 2026-10-28 and combined across NHTSA model names: TRAILBLAZER. 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

CAMPAIGN	WHAT IT SAYS	THIS CAR
Emission recall A242435780: spark timing after auto	On 2024 Trax, Envista, Trailblazer and Encore GX with the 1.2L, the engine computer may not control spark timing after some auto	May apply:

CAMPAIGN	WHAT IT SAYS	THIS CAR
stop/start (2024 1.2L)	stop/start events. The engine can run rough or knock, and driving with knock can damage the engine. Dealers reprogram the engine computer. OFFICIAL [5]	check by VIN
Service update A202302140: oil pump stuck by foreign material (2020 Encore GX, 2021 Trailblazer 1.2L)	Dealers ran an oil pump screening test and replaced the pump if needed on early 1.2L engines with oil pressure codes P0521, P06DD or P06DE. OFFICIAL [3]	May apply: check by VIN

4 · THE 3 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 (9BQX). Left out because they apply to other models, years, engine sizes or body codes: Sudden internal engine failure (reported mainly on 2024–2025 Trax); Turbo wastegate rattle and underboost (P0299); Camshaft cover failure: oil burning and blue smoke (2024 1.2L); Knock after auto stop/start (emission recall A242435780); Camshaft actuator oil control valve bolt sticks (1.3L, 2020–2021).

1 Turbocharger failure (2021 1.2L: free under GM special coverage)

Inside the range

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

COMPUTED FROM NHTSA DATA

At 56,000 mi this car is inside the reported range (26,000–66,000 mi (middle half of 36 owner complaints that state a mileage)), 30,000 miles past where reports start. Range: 26,000–66,000 mi (middle half of 36 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]



Applies to: 2021 Encore GX and Trailblazer with the 1.2L (RPO LIH) under special coverage N242450640. 2021 cars with the 1.3L are not in the coverage.

WHAT FAILS OFFICIAL [14][6][1]

On 2021 Encore GX and Trailblazer models with the 1.2L engine the turbocharger can fail. The check-engine light comes on, a code sets and the car may show a reduced-power message; the most frequent complaints are a cold-start rattle or a P0299 underboost code. GM covers turbocharger replacement on these cars for 15 years or 150,000 miles from the date the car was first put in service, whoever owns it, and reimburses owners who already paid.

SYMPTOMS

- Rattle from under the car for a minute after a cold start
- Check-engine light with P0299
- Reduced power

IF IT'S LEFT TOO LONG

A stuck wastegate cuts power; a failed turbo is an expensive repair.

IS IT WORTH DOING EARLY? OUR ESTIMATE

On a 2021 1.2L the turbo is replaced free inside 15 years / 150,000 miles; check the VIN for N242450640 before paying. Keep receipts if you already paid.

ESTIMATED REPAIR COST

Free under special coverage N242450640 (15 yr / 150k mi)	**Free if covered** OFFICIAL [14] published independent-shop range
Turbocharger assembly replacement, Chevrolet Trailblazer (RepairPal estimate, all years)	**$1,596–$2,034** SHOP/RETAILER [11] reported range for the bill after a failure

Where the numbers come from: Free under GM special coverage N242450640 on 2021 1.2L cars inside 15 years / 150,000 miles from the in-service date [14]. The price shown is for a car outside the coverage (a 1.3L car, or past the limit). GM warranty time for the turbocharger is 3.3 h [14].

PARTS FOR 9BQX

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

QUESTIONS TO ASK US

- Any cold-start rattle or P0299?
- Has the turbo been replaced?

2 Oil pump debris and oil pressure codes (P0521, P06DD, P06DE)

Any mileage

Severity: High: overheating, stalls, limp mode or a big bill · 9 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (2020–2021 and 2023–2025 1.2L engines in the GM notes), so mileage doesn't say much here. Range: 2020–2021 and 2023–2025 1.2L engines in the GM notes OFFICIAL [2][3]

WHAT FAILS OFFICIAL [2][3][13]

The 1.2L uses a switchable oil pump. GM found debris left in some pumps during production and wiring harness faults that set oil pressure codes P0521, P06DD or P06DE; dealers test the oil pressure control solenoid and sensor and replace the pump if needed. On early 2020–2021 cars a service update screened the pump. On the 1.3L, GM notes P06DD can set right after an oil change because the filter and oil gallery drained.

SYMPTOMS

- Check-engine light with P0521, P06DD or P06DE
- Low oil pressure warning

IF IT'S LEFT TOO LONG

Low oil pressure can damage the engine quickly.

GOOD TO KNOW

The 1.3L note is GM PIP5844: low or no oil pressure right after an oil and filter change can set P06DD (2020–2022 Encore GX and 2021–2022 Trailblazer 1.3L).

IS IT WORTH DOING EARLY? OUR ESTIMATE

Treat any oil pressure code as urgent and have it diagnosed under warranty.

ESTIMATED REPAIR COST

No published price	**Our price is in the plan above** ask us for a written quote
No published price for an oil pump	**No published price** reported range for the bill after a failure

PARTS FOR 9BQX

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

QUESTIONS TO ASK US

- Any oil pressure codes or warnings?
- Was the oil pump or oil pressure sensor replaced?

3 Evaporative emission purge pump failure (2020–2021)

Any mileage

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

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (2020–2021 Encore GX and 2021 Trailblazer: purge pump covered to 15 years / 150,000 miles), so mileage doesn't say much here. Range: 2020–2021 Encore GX and 2021 Trailblazer: purge pump covered to 15 years / 150,000 miles OFFICIAL [15]

Applies to: 2020–2021 Encore GX (1.2L / 1.3L) and 2021 Trailblazer (1.2L / 1.3L) under special coverage N232395310

WHAT FAILS OFFICIAL [15]

The pump that draws fuel vapor from the charcoal canister into the engine can fail. The check-engine light comes on and a code sets (GM's claim table names P1467). GM covers the pump on 2020–2021 Encore GX and 2021 Trailblazer models for 15 years or 150,000 miles from the date the car was first put in service, whoever owns it.

SYMPTOMS

- Check-engine light
- Evaporative-system code such as P1467

IF IT'S LEFT TOO LONG

The check-engine light stays on and the car can fail an emissions test. No engine damage.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Free at a GM dealer inside 15 years / 150,000 miles; check the VIN for N232395310 before paying.

ESTIMATED REPAIR COST

Free under special coverage N232395310 (15 yr / 150k mi)	**Free if covered** OFFICIAL [15] published independent-shop range
No published bill outside the special coverage	**No published price** reported range for the bill after a failure

Where the numbers come from: Free under GM special coverage N232395310 inside 15 years / 150,000 miles from the in-service date [15]. GM reimburses owners who paid for this repair earlier. No published bill for a car outside the coverage.

PARTS FOR 9BQX

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

QUESTIONS TO ASK US

- Check-engine light on?
- Purge pump ever replaced?

5 · ALSO REPORTED, NOT RANKED

Other themes in 1.2L / 1.3L turbo I3 (LIH / LBP / L3T) 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
Transmission (CVT / 6-speed)	269	Counts every transmission complaint (CVT on 1.2L models, 9-speed automatic on 1.3L AWD). Not an engine fault.
Brakes	202	Brake noise and electronic brake boost complaints (recall 20V-588 on 2020–2021 cars); not an engine fault.
Stall / shuts off while driving	166	The largest engine-related group. Causes are mixed: engine failures (see that item), battery and electrical shutdowns ("battery saver mode"), and transmission faults. GM tells technicians to check the negative battery cable on 2024–2025 cars with an intermittent stall or no-start (PIT6263).
Battery / electrical	65	Battery drain, "battery saver mode" and electrical shutdowns; not an engine fault.
Coolant leak / overheating	22	Scattered coolant leaks; GM had a 2021 service update to replace a faulty coolant inlet pipe and temperature sensor on a small number of vehicles (N202321920). Check by VIN.

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/GM 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 2021–2026 Trailblazer, 2020–2026 Encore GX, 2024–2026 Trax and 2024–2026 Envista complaints (every one of these has a three-cylinder engine): 1,082 complaints. We pooled every complaint NHTSA files under these model names and years; where a nameplate also came with another engine or powertrain, a few complaints may be about it. Themes are keyword matches on the complaint text. The pool covers both the 1.2L and the 1.3L; few owners say which they have. The 2015–2022 Trax and 2013–2022 Encore have the 1.4L turbo four (Ecotec page). The 2013–2015 Spark 1.2L is a different, non-turbo engine. `COMPUTED FROM NHTSA DATA`

THEME	COMPLAINTS	IN THIS REPORT
Transmission (CVT / 6-speed)	269	Also reported
Brakes	202	Also reported
Stall / shuts off while driving	166	Also reported
Battery / electrical	65	Also reported
Turbo / wastegate / underboost	60	Other years or engine sizes
Sudden engine failure	46	Other years or engine sizes
Coolant leak / overheating	22	Also reported
Oil pressure codes	9	Item 2
Knock after auto stop/start	9	Other years or engine sizes
Oil consumption / blue smoke	5	Other years or engine sizes
Cam timing codes (1.3L)	2	Other years or engine sizes

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 2021–2026 Trailblazer, 2020–2026 Encore GX, 2024–2026 Trax and 2024–2026 Envista, pulled Oct 28, 2026 (ODI numbers in the notes) OFFICIAL
https://www.nhtsa.gov/report-a-safety-problem#complaints

2. GM Bulletin 24-NA-021: MIL on with any combination of P0521, P06DD, P06DE: engine wiring harness issue or oil pump debris left in the pump during production; test the oil pressure solenoid and sensor and replace the pump if needed (2023–2025 Encore GX and Trailblazer, 2024–2025 Trax and Envista, 1.2L LIH/LBP) (2025-03), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2025/MC-11017256-0001.pdf

3. GM Service Update A202302140-01: Engine oil pressure sensor performance error: oil pump may be stuck by foreign material; screening test and pump replacement (2020 Encore GX, 2021 Trailblazer, 1.2L LIH) (2020-06), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2020/MC-10177355-9999.pdf

4. GM PIP5938: Normal fine particles in the engine oil or oil pan from wet timing belt wear-in (2020–2024 Encore GX, 2021–2024 Trailblazer, 2024 Trax and Envista, 1.2L LIH) (2023-08), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2023/MC-10242307-9999.pdf

5. GM Emission Recall A242435780-01: Engine spark timing following an auto stop event: the engine may run rough or knock, and driving with knock can damage the engine; reprogram the ECM (2024 Encore GX, Envista, Trailblazer and Trax, 1.2L LIH) (2024-08), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2024/MC-11006392-0001.pdf

6. GM Bulletin 23-NA-058: Cold start rattle from the engine compartment, MIL with P0299: turbo wastegate linkage wear; test the wastegate regulator valve before replacing the turbo (2020–2023 Encore GX and 2021–2023 Trailblazer, 1.2L LIH) (2024-06), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2024/MC-11004875-0001.pdf

7. GM PIP5947B: Excessive oil consumption and blue smoke below 2,000 miles from an internal engine camshaft cover failure (2024 Encore GX, Envista, Trailblazer and Trax, 1.2L LIH) (2024-06), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2024/MC-11006446-0001.pdf

8. GM Service Update A202304840-01: Camshaft actuator oil control valve center bolt can stick or bind (P0011, P0014) (2020–2021 Encore GX and 2021 Trailblazer, 1.3L L3T) (2020-07), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2020/MC-10207729-9999.pdf

9. GM Bulletin 20-NA-151: Engine idle unstable, MIL with P0011, P0014, P0016, P0017, P05CC and/or P05CE (2020 Encore GX and 2021 Trailblazer, 1.3L L3T) (2020-08), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2020/MC-10178983-9999.pdf

10. Open Labor Project: 2021 Chevrolet Trailblazer known problems and repair costs, AI-assisted, not independently verified, via search extract Oct 28, 2026 FORUM/BLOG
https://openlaborproject.com/portal/chevrolet/trailblazer/2021/1.2l-i3-turbo/

11. RepairPal: Chevrolet Trailblazer turbocharger assembly replacement estimate, via search extract Oct 28, 2026 SHOP/RETAILER
https://repairpal.com/estimator/chevrolet/trailblazer/turbocharger-assembly-replacement-cost

12. NHTSA recall records: 20V-588 (electronic brake boost sensor connection) and 23V-744 (instrument display software), checked Oct 28, 2026 OFFICIAL
https://www.nhtsa.gov/recalls?nhtsaId=20V588000

13. GM PIP5844: Possible DTC P06DD after changing engine oil and filter (low or no oil pressure while the filter and gallery refill) (2020–2022 Encore GX and 2021–2022 Trailblazer, 1.3L L3T) (2022-03), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2022/MC-10210334-9999.pdf

14. GM Special Coverage N242450640-01: Turbocharger replacement, 2021 Buick Encore GX and Chevrolet Trailblazer with the 1.2L (RPO LIH): 15 years / 150,000 miles from the in-service date (2025-10-20), filed with NHTSA, read Nov 10, 2026 OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2025/MC-11024376-0001.pdf

15. GM Special Coverage N232395310: Evaporative emission purge pump, 2020–2021 Encore GX and 2021 Trailblazer (1.2L / 1.3L), 2021 Silverado / Sierra 1500 2.7L and other 2020–2021 models: 15 years / 150,000 miles from the in-service date (2023-07-27), filed with NHTSA, read Nov 10, 2026 OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2023/MC-10239764-0001.pdf

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 Chevrolet dealer or qualified shop. Safety recall repairs are free at Chevrolet dealers. Confirm recalls for this VIN at nhtsa.gov/recalls.

No warranty

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