SEA **Springfield Euro Auto** EXAMPLE SHOP
service@springfield-euro-auto.example

2006 Land Rover LR3 at 115,000 mi

SALAG25456A123456

MODEL / CHASSIS	ENGINE	MILEAGE	DRIVETRAIN
LR3 · L319 LR3 HSE 4.4 V8	Jaguar Land Rover AJ-V8 4.2L / 4.4L V8 (incl. 4.2 supercharged)	115,000 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 '6' = 2006, 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	4
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 (5)

- **07V-011** · Fuel system · tank breather pipe: A breather pipe inside the fuel tank can come loose. With a full tank, fuel can leak onto the ground, which is a fire risk.
- **05V-502** · Transmission · park pawl: Park may not engage even though the display shows Park. A vehicle parked on a slope without the parking brake could roll away.
- **08V-248** · Air bags · driver (clockspring wiring): The driver air bag wiring at the steering wheel can break. The air bag light comes on, and the air bag may not deploy as intended in a crash.
- **06V-131** · Ignition · key removal: The key can be removed when the shifter is not in Park, so a parked vehicle could roll away.
- **05V-501** · Seat belts · rear left buckle: The rear left second-row seat belt buckle may not be held in place, so the occupant may not be properly restrained.

A model-year list, not a VIN check. Repairs are free at a Land Rover retailer if open. On a car over 15 years old, ask the dealer whether a newer recall is still repaired free. Check this VIN at nhtsa.gov/recalls.

Step 0 · Free: run the VIN at nhtsa.gov/recalls and ask a Land Rover retailer for a campaign printout, including 07V-011, 05V-502. Read the build month (MM/YY) on the driver's door-jamb label.

Recommended now at the next service

Good news: nothing on the 4.2/4.4L AJ-V8 watch list is due at this mileage. Worth a fresh look at about 125,000 mi.

Next 12 months up to about 127,000 mi

Nothing scheduled here.

Within the next 30,000 miles up to 145,000 mi

Nothing else enters its reported range in this window.

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

Coolant leaks: thermostat housing, hoses and expansion tank pipe — **$750**
Any mileage (Jaguar bulletins for 2003–2009 V8 models; check any AJ-V8) · Ask for this check at every service
our price EXAMPLE

Clogged fuel injectors (misfire, detonation) — **Ask us for a quote**
Any mileage (Jaguar bulletin for AJ-V8 engines (S-Type, XF, XJ, XK)) · Inspect at each service; fix at the first sign

Catalytic converter efficiency codes (P0420 / P0430) — **$2,400**
Any mileage (2009 LR3 and Range Rover Sport (4.4 under 80,000 mi; 4.2 supercharged software fix)) · Inspect at each service; fix at the first sign
our price EXAMPLE

Engine software updates (hot-soak stall, high-altitude power loss) — **$50**
Any mileage (Jaguar 4.2 NA XF 2009–2010, XJ 2006–2009, XK 2007–2009; LR3 2005–2009 and Range Rover Sport 2006–2009 4.4) · Ask for this check at every service
our price EXAMPLE

Recommended now

No repairs due now

Springfield Euro Auto prices (example)

Planned through 145,000 mi

No repairs planned

Now + next 12 months + next 30,000 miles. Excludes “watch” and optional items.

Prices are Springfield Euro Auto'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 Euro Auto 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 115K SITS FOR EACH WEAK POINT

#	WEAK POINT	REPORTED RANGE	THIS CAR
1	Coolant leaks: thermostat housing, hoses and expansion tank pipe	Jaguar bulletins for 2003–2009 V8 models; check any AJ-V8 OFFICIAL	Any mileage
2	Clogged fuel injectors (misfire, detonation)	Jaguar bulletin for AJ-V8 engines (S-Type, XF, XJ, XK) OFFICIAL	Any mileage
3	Catalytic converter efficiency codes (P0420 / P0430)	2009 LR3 and Range Rover Sport (4.4 under 80,000 mi; 4.2 supercharged software fix) OFFICIAL	Any mileage
4	Engine software updates (hot-soak stall, high-altitude power loss)	Jaguar 4.2 NA XF 2009–2010, XJ 2006–2009, XK 2007–2009; LR3 2005–2009 and Range Rover Sport 2006–2009 4.4 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 2006 Land Rover LR3

Safety recall repairs are free at Land Rover retailers. On a car over 15 years old, ask the dealer whether a newer recall is still repaired free. 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 SALAG25456A123456.
2. Note every recall shown as “Recall incomplete” and keep a screenshot.
3. Ask a Land Rover retailer for a campaign printout; it also lists completed campaigns.

4.2/4.4L AJ-V8 RECALLS WE TRACK

07V-011 · Fuel tank breather pipe can detach and leak fuel (2005–2006 LR3)

NHTSA lists this model and year: check by VIN

An internal breather pipe in the fuel tank can come loose; with a full tank, fuel can leak onto the ground, a fire risk. Free repair. OFFICIAL [15]

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

05V-502 · Park may not engage (2006 LR3, Range Rover, Range Rover Sport)

NHTSA lists this model and year: check by VIN

A badly made parking pawl guide plate can stop Park from engaging even though the display shows Park; the vehicle can roll away. Free repair. OFFICIAL [15]

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

Other 4.2/4.4L AJ-V8 recalls we track, not listed by NHTSA for this model and year: 05V-376 (fuel tank breather pipe can detach (2005 LR3)), 06V-358 (fuel tank seals may not be retained (2006–2007 Jaguar XJ)), 06V-418 (fuel tank seals may not be retained (2005 S-Type)), 06V-467 (prototype fuel tanks fitted (some 2007 S-Type)), 04V-024 (gearbox may select reverse (2003–2004 S-Type, 2004 XJ, 2003–2004 XK)), 05V-503 (park may not engage (2006 S-Type, XJ)).

EVERY RECALL NHTSA LISTS FOR THE 2006 LAND ROVER LR3 (5)

RECALL	COMPONENT	WHAT CAN HAPPEN (NHTSA, SHORTENED)
07V-011 4.2/4.4L AJ-V8 tracked	Fuel system · tank breather pipe	A breather pipe inside the fuel tank can come loose. With a full tank, fuel can leak onto the ground, which is a fire risk. Details
05V-502 4.2/4.4L AJ-V8 tracked	Transmission · park pawl	Park may not engage even though the display shows Park. A vehicle parked on a slope without the parking brake could roll away. Details
08V-248	Air bags · driver (clockspring wiring)	The driver air bag wiring at the steering wheel can break. The air bag light comes on, and the air bag may not deploy as intended in a crash. Details

RECALL	COMPONENT	WHAT CAN HAPPEN (NHTSA, SHORTENED)
06V-131	Ignition · key removal	The key can be removed when the shifter is not in Park, so a parked vehicle could roll away. Details
05V-501	Seat belts · rear left buckle	The rear left second-row seat belt buckle may not be held in place, so the occupant may not be properly restrained. Details

Source: NHTSA recalls API, fetched 2026-10-28 and combined across NHTSA model names: LR3. 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
Left out of this list (LR3): 07E-047 is an aftermarket bicycle-rack equipment recall, not a vehicle defect, and is left out of this sample.

SERVICE ACTIONS, BULLETINS AND WARRANTY PROGRAMS

CAMPAIGN	WHAT IT SAYS	THIS CAR
Thermostat housing service action S939	Jaguar service action and supplemental repair for coolant leaking from the thermostat housing hose on early 4.2 V8 cars. OFFICIAL [2]	Ask a dealer by VIN

4 · THE 4 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 (L319).

1 Coolant leaks: thermostat housing, hoses and expansion tank pipe

Any mileage

Severity: High: overheating, stalls, limp mode or a big bill · 18 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (Jaguar bulletins for 2003–2009 V8 models; check any AJ-V8), so mileage doesn't say much here. Range: Jaguar bulletins for 2003–2009 V8 models; check any AJ-V8 OFFICIAL [2][3][4]

WHAT FAILS OFFICIAL [2][3][4]

Jaguar has several cooling bulletins for this V8: coolant leaking from the thermostat housing and its hose (a service action added a clamp and a further repair), a thermostat that can stick closed and overheat the engine, and an expansion tank stub pipe that can split on 2009-and-earlier XJ, XK and XF models.

SYMPTOMS

- Low coolant warning
- Coolant smell or crusty residue at the front of the engine
- Temperature gauge climbing

IF IT'S LEFT TOO LONG

Running low on coolant can overheat and badly damage an aluminum V8.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Fix small coolant leaks early; pressure-test the system at each service on high-mileage cars.

ESTIMATED REPAIR COST

Thermostat replacement, 2009 XJ8 4.2L estimate to shop/dealer range	**Our price is in the plan above** ask us for a written quote
No published bill for an overheated engine	**No published price** reported range for the bill after a failure

PARTS FOR L319

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

QUESTIONS TO ASK US

- Any low-coolant warnings or top-ups?
- Thermostat, housing or water pump replaced?

2 Clogged fuel injectors (misfire, detonation)

Any mileage

Severity: Medium: leaks and wear · 3 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (Jaguar bulletin for AJ-V8 engines (S-Type, XF, XJ, XK)), so mileage doesn't say much here. Range: Jaguar bulletin for AJ-V8 engines (S-Type, XF, XJ, XK) OFFICIAL [6]

WHAT FAILS OFFICIAL [6]

ESTIMATED REPAIR COST

Poor fuel or contaminants can block the holes in the fuel injectors. The engine then runs poorly, misfires or knocks. Jaguar approves ultrasonic cleaning of the injectors as a repair.

SYMPTOMS

- Misfire codes
- Rough idle or hesitation
- Pinging under load

IF IT'S LEFT TOO LONG

Lean running and detonation can damage pistons and catalytic converters.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Use top-tier fuel; clean the injectors before replacing them.

No published price for injector cleaning	**Our price is in the plan above** ask us for a written quote
Fuel injector replacement, average estimate (XJ8)	**$2,337** SHOP/RETAILER [7] reported range for the bill after a failure

PARTS FOR L319

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

QUESTIONS TO ASK US

- Any misfire codes or rough running?
- Injectors cleaned or replaced?

---

3 Catalytic converter efficiency codes (P0420 / P0430)

Any mileage

Severity: Medium: leaks and wear · 4 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (2009 LR3 and Range Rover Sport (4.4 under 80,000 mi; 4.2 supercharged software fix)), so mileage doesn't say much here. Range: 2009 LR3 and Range Rover Sport (4.4 under 80,000 mi; 4.2 supercharged software fix) OFFICIAL [8][9]

WHAT FAILS OFFICIAL [8][9]

Land Rover tells technicians to replace both catalytic converters on 2009 LR3 and Range Rover Sport 4.4 models that set P0420 or P0430 under 80,000 miles with no misfire history. On the 2009 Range Rover Sport supercharged, the same codes can be fixed by configuring the engine computer.

SYMPTOMS

- Check-engine light with P0420 or P0430
- Failed emissions test

IF IT'S LEFT TOO LONG

Mostly an emissions problem; a misfire can destroy new converters, so fix misfires first.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Rule out misfires and oxygen sensors; check federal emissions warranty and the software fix first.

ESTIMATED REPAIR COST

Catalytic converter replacement, owner-reported LR3 costs (one to both converters)	**Our price is in the plan above** ask us for a written quote
Same job	**$1,200–$3,600** FORUM/BLOG [10] [11] reported range for the bill after a failure

PARTS FOR L319

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

QUESTIONS TO ASK US

- Catalytic converters replaced?
- Any misfire history?

4 Engine software updates (hot-soak stall, high-altitude power loss)

Any mileage

Severity: Medium: leaks and wear · 82 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (Jaguar 4.2 NA XF 2009–2010, XJ 2006–2009, XK 2007–2009; LR3 2005–2009 and Range Rover Sport 2006–2009 4.4), so mileage doesn't say much here. Range: Jaguar 4.2 NA XF 2009–2010, XJ 2006–2009, XK 2007–2009; LR3 2005–2009 and Range Rover Sport 2006–2009 4.4 OFFICIAL [12][13]

WHAT FAILS OFFICIAL [12][13]

Two calibration faults have software fixes. On Jaguar 4.2 naturally aspirated models the engine can start rough or stall after a 15–20 minute hot soak with winter-blend E10 fuel. On the LR3 and Range Rover Sport 4.4 the engine can lose power above about 8,200 feet and set lean codes.

SYMPTOMS

- Rough start or stall after a short stop on a hot day
- Loss of power at high altitude
- Check-engine light with P0171/P0174

IF IT'S LEFT TOO LONG

A stall after a short stop or a loss of power on a mountain road.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Ask a dealer or a shop with JLR software to check the engine computer software level.

ESTIMATED REPAIR COST

Labor only, 0.2–0.3 h Jaguar Land Rover warranty time	**Our price is in the plan above** ask us for a written quote
Labor only, 0.2–0.3 h Jaguar Land Rover warranty time	**$20–$50** OUR ESTIMATE [13][14] labor only, parts extra

Where the numbers come from: Estimate: Jaguar Land Rover warranty labor time of 0.2–0.3 h (bulletin [13]) × $100–$160/h independent-shop labor rate [14]. Parts are extra unless stated; check the VIN for open warranty coverage first. The Land Rover altitude update is listed at 0.2 h.

PARTS FOR L319

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

QUESTIONS TO ASK US

- Engine software updated?

5 · ALSO REPORTED, NOT RANKED

Other themes in 4.2/4.4L AJ-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
Air suspension / brakes / steering	259	Most LR3 and Range Rover complaints are about suspension, brakes and steering, not the engine.
Transmission	187	Includes the park-pawl recalls 05V-502/05V-503 and 04V-024; check they are done.
Fuel smell / fuel leak	32	Fuel tank recalls 05V-376, 07V-011, 06V-358, 06V-418 and 06V-467; check they are done.

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/JLR 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 LR3 2005–2009 complaints that do not name the V6/4.0L; all 2006–2009 Range Rover and Range Rover Sport complaints; Jaguar XJ 2004–2009, XK/XK8/XKR 2003–2009 and XF 2009 complaints; S-Type 2003–2008 complaints that name the 4.2, V8, S-Type R or supercharger: 803 complaints. Some of these nameplates were sold with other engines too; for those we left out complaints whose text names another engine or a hybrid, so a few complaints about other engines can remain. Themes are keyword matches on the complaint text. The 2010-on 5.0L V8 and 3.0L supercharged V6 have their own page (AJ133 / AJ126). `COMPUTED FROM NHTSA DATA`

THEME	COMPLAINTS	IN THIS REPORT
Air suspension / brakes / steering	259	Also reported
Transmission	187	Also reported
Stalling / loss of power	82	Item 4
Fuel smell / fuel leak	32	Also reported
Coolant leak / overheating	18	Item 1
Catalytic converter / emissions	4	Item 3
Misfire / rough running	3	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 2005–2009 LR3 (V8), 2006–2009 Range Rover and Range Rover Sport, 2004–2009 Jaguar XJ, 2003–2009 XK, 2003–2008 S-Type 4.2/R and 2009 XF, pulled Oct 27, 2026 (ODI numbers in the cost notes) `OFFICIAL`
https://www.nhtsa.gov/report-a-safety-problem#complaints

2. Jaguar Bulletin 30315 (Service Action S939): Coolant leak from thermostat housing, supplemental repair to Service Action S939 (2004-08-01), filed with NHTSA `OFFICIAL`
https://www.nhtsa.gov/?nhtsaId=10017716

3. Jaguar Bulletin 30311: Overheating: thermostat stuck closed, revised V8 thermostat available (2003-02-01), filed with NHTSA `OFFICIAL`
https://www.nhtsa.gov/?nhtsaId=10012415

4. Jaguar SSM51717: Coolant expansion tank stub pipe leaking on XJ (X350), XK (X150) and XF (X250) up to the end of 2009 MY (2015-01-05), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2015/SB-10097046-1020.pdf

5. YourMechanic: Jaguar XJ8 thermostat replacement, via search extract Oct 28, 2026 SHOP/RETAILER
https://www.yourmechanic.com/estimates/jaguar/xj8/thermostat-replacement

6. Jaguar SSM39211: AJ-V8 fuel injectors clogged, causing poor running, misfires and detonation; ultrasonic injector cleaning approved (2015-01-05), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2015/SB-10097036-1020.pdf

7. YourMechanic: Jaguar XJ8 fuel injector replacement, via search extract Oct 28, 2026 SHOP/RETAILER
https://www.yourmechanic.com/estimates/jaguar/xj8/fuel-injector-replacement

8. Land Rover SSM72272: 2009 MY Range Rover Sport or LR3 4.4 NA: MIL with P0420/P0430 under 80,000 miles; replace both catalysts (2015-05-18), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2015/MC-10104801-9340.pdf

9. Land Rover LTB00840NAS1: Engine MIL with only P0420 and/or P0430 stored, 2009 Range Rover Sport 4.2L supercharged: configure the ECM (2015-09-28), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2015/SB-10105785-9340.pdf

10. TrueDelta: Land Rover LR3 expensive problems (owner-reported catalytic converter replacements), via search extract Oct 28, 2026 FORUM/BLOG
https://www.truedelta.com/Land-Rover-LR3/expensive-problems-154

11. LandRoverForums: LR3 brake repair costs thread, via search extract Oct 28, 2026 FORUM/BLOG
https://landroverforums.com/forum/lr3-28/lr3-brake-repair-costs-37355

12. Land Rover LTB00429NAS3: Poor engine performance at high altitude (above 8,200 ft), LR3 2005–2009 and Range Rover Sport 2006–2009 4.4L V8: update ECM software (0.2 h) (2013-07-01), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2013/SB-10043884-1965.pdf

13. Jaguar JTB00268NAS3: Engine hard to start or stalls after a 15–20 minute hot soak, 4.2L naturally aspirated XF 2009–2010, XJ 2006–2009, XK 2007–2009: update ECM software (0.2–0.3 h) (2014-01-06), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2014/SB-10064320-6903.pdf

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

15. NHTSA recall records: 05V-376 and 07V-011 (LR3 fuel tank breather pipe), 06V-358, 06V-418 and 06V-467 (Jaguar fuel tanks), 04V-024, 05V-502 and 05V-503 (automatic transmission), checked Oct 27, 2026 OFFICIAL
https://www.nhtsa.gov/recalls?nhtsaId=07V011000

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 Euro Auto 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 Land Rover retailer or qualified shop. Safety recall repairs are free at Land Rover retailers. 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.

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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.