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



# 2018 Land Rover Discovery Sport at 70,000 mi

SALCR2RX6JH123456

| MODEL / CHASSIS | ENGINE | MILEAGE | DRIVETRAIN |
|---|---|---|---|
| Discovery Sport · L550 Discovery Sport 2.0 petrol (Si4) | Jaguar Land Rover Ingenium 2.0 four-cylinder and 3.0 inline six | 70,000 mi | AWD |
| **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 'J' = 2018, 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

**3** to watch or check at each service

**Safety recalls NHTSA lists for this model year (1)**

- **18V-087** · Fuel rail · end caps: The fuel rail end caps can leak fuel or vapor into the engine bay, a fire risk.

A model-year list, not a VIN check. Repairs are free at a Land Rover retailer if open. 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 18V-087. Read the build month (MM/YY) on the driver's door-jamb label.

### Recommended now at the next service — $165

**Inspection: check now, while it's cheaper to fix** — $165

inspection EXAMPLE

**Timing chain stretch**: Inside the range (Typical failure window for the 2.0 diesel per a parts retailer; NHTSA owners report petrol failures too)

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 82,000 mi

Nothing scheduled here.

## Within the next 30,000 miles up to 100,000 mi

Nothing else enters its reported range in this window.

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

**Coolant pump leak (2.0 petrol)** — **Ask us for a quote**

Any mileage (2018–2024 2.0 petrol models) · Inspect at each service; fix at the first sign

**Thermostat housing coolant leak** — **Ask us for a quote**

Any mileage (2020–2024 2.0 petrol Land Rovers; Jaguar four-cylinders too) · Inspect at each service; fix at the first sign

**VCT solenoid wear (service action)** — `Free if covered` check the VIN

Any mileage (2018–2020 2.0 petrol (AJ20P4)) · Ask for this check at every service

Recommended now

**$165**

Springfield Euro Auto prices (example)

Planned through 100,000 mi

**$165**

Nothing else on the list before 100,000 mi. 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 70K SITS FOR EACH WEAK POINT

| # | WEAK POINT | REPORTED RANGE | THIS CAR |
|---|---|---|---|
| 1 | Coolant pump leak (2.0 petrol) | 2018–2024 2.0 petrol models OFFICIAL | Any mileage |
| 2 | Thermostat housing coolant leak | 2020–2024 2.0 petrol Land Rovers; Jaguar four-cylinders too OFFICIAL | Any mileage |
| 3 | VCT solenoid wear (service action) | 2018–2020 2.0 petrol (AJ20P4) OFFICIAL | Any mileage |
| 4 | Timing chain stretch | Typical failure window for the 2.0 diesel per a parts retailer; NHTSA owners report petrol failures too FORUM/BLOG | Inside 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 2018 Land Rover Discovery Sport

Safety recall repairs are free at Land Rover retailers. 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 SALCR2RX6JH123456.
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.

### 2.0 / 3.0 INGENIUM RECALLS WE TRACK

**18V-087 · Fuel rail end caps may leak (2018 Evoque, Velar, Discovery Sport 2.0 petrol)**

NHTSA lists this model and year: check by VIN

The fuel rail end caps may leak fuel or vapor into the engine bay. Free repair. OFFICIAL [8]

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

Other 2.0 / 3.0 Ingenium recalls we track, not listed by NHTSA for this model and year: 18V-090 (fuel rail end caps may leak (2018 Jaguar XE, XF, E-Pace, F-Pace, F-Type 2.0 petrol)), 23V-044 (cam carrier oil channel may be blocked (Ingenium six: 2019–2023 Range Rover Sport, 2020–2023 Defender and others)), 24V-450 (oil filter housing can crack (2023–2024 Defender, 2024 Discovery, Velar and others)), 24V-451 (oil filter housing can crack (2021–2024 Jaguar F-Pace)), 17V-286 (diesel fuel return hose may leak (2017 Jaguar XE 2.0 diesel)).

### EVERY RECALL NHTSA LISTS FOR THE 2018 LAND ROVER DISCOVERY SPORT (1)

| RECALL | COMPONENT | WHAT CAN HAPPEN (NHTSA, SHORTENED) |
|---|---|---|
| **18V-087**<br>2.0 / 3.0 Ingenium tracked | Fuel rail · end caps | The fuel rail end caps can leak fuel or vapor into the engine bay, a fire risk. Details |

Source: NHTSA recalls API, fetched 2026-10-27 and combined across NHTSA model names: DISCOVERY SPORT. 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 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 (L550).

## 1 Coolant pump leak (2.0 petrol)

Any mileage

Severity: High: overheating, stalls, limp mode or a big bill · 41 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (2018–2024 2.0 petrol models), so mileage doesn't say much here. Range: 2018–2024 2.0 petrol models OFFICIAL [4]

### WHAT FAILS OFFICIAL [4][5]

Coolant pumps on the 2.0 petrol leak visibly, with a low coolant light or coolant smell. Land Rover asked dealers to return leaking pumps and coolant samples for engineering review. Earlier service actions also updated coolant pump operation.

#### SYMPTOMS

- Low coolant light
- Coolant smell
- Visible leak at the pump

### IF IT'S LEFT TOO LONG

Coolant loss can overheat the engine.

### IS IT WORTH DOING EARLY? OUR ESTIMATE

Fix at the first leak; check warranty and open service actions by VIN.

### ESTIMATED REPAIR COST

| | |
|---|---|
| No published price | **Our price is in the plan above**<br>ask us for a written quote |
| No published price | **No published price**<br>reported range for the bill after a failure |

### PARTS FOR L550

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

### QUESTIONS TO ASK US

- Coolant pump replaced?
- Service actions H291 / N451 done?

## 2 Thermostat housing coolant leak

Any mileage

Severity: High: overheating, stalls, limp mode or a big bill · 2 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (2020–2024 2.0 petrol Land Rovers; Jaguar four-cylinders too), so mileage doesn't say much here. Range: 2020–2024 2.0 petrol Land Rovers; Jaguar four-cylinders too OFFICIAL [2][3]

### WHAT FAILS OFFICIAL [2][3]

Coolant can leak from the thermostat housing, most often at the welded spigot cap or the gasket to the block. Land Rover was still investigating the cause in 2025.

### ESTIMATED REPAIR COST

| | |
|---|---|
| No published price | **Our price is in the plan above**<br>ask us for a written quote |

SYMPTOMS

- Low coolant warning
- Coolant smell
- Coolant on the thermostat housing

IF IT'S LEFT TOO LONG

Coolant loss can overheat the engine.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Replace the housing at the first leak.

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

PARTS FOR L550

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

QUESTIONS TO ASK US

- Thermostat housing replaced?

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## 3 VCT solenoid wear (service action)

Any mileage

Severity: Medium: leaks and wear · 12 mentions in counted NHTSA complaints
COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (2018–2020 2.0 petrol (AJ20P4)), so mileage doesn't say much here. Range: 2018–2020 2.0 petrol (AJ20P4) OFFICIAL [6]

WHAT FAILS OFFICIAL [6]

Variable camshaft timing solenoids can wear early, turning on the check-engine light and possibly causing a no start. Land Rover and Jaguar replace both intake and exhaust solenoids under service actions N481 and H299.

SYMPTOMS

- Check-engine light
- Cam timing codes
- No start

IF IT'S LEFT TOO LONG

Can leave the car unable to start.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Check by VIN that the service action was done.

ESTIMATED REPAIR COST

| | |
|---|---|
| Free under service action N481 / H299 | **Free if covered** OFFICIAL [6] published independent-shop range |
| No published price outside the action | **No published price** reported range for the bill after a failure |

PARTS FOR L550

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

QUESTIONS TO ASK US

- Service action N481 / H299 done?

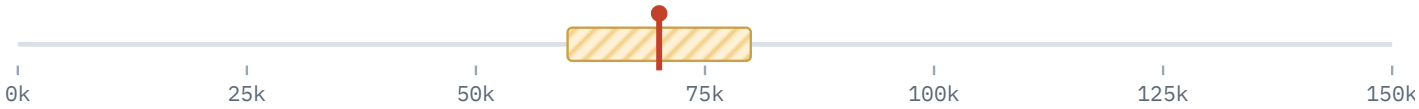
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## 4 Timing chain stretch

Inside the range

Severity: Critical: rare, but can badly damage the engine · 10 mentions in counted NHTSA complaints COMPUTED FROM NHTSA DATA

At 70,000 mi this car is inside the reported range (Typical failure window for the 2.0 diesel per a parts retailer; NHTSA owners report petrol failures too), 10,000 miles past where reports start. Range: Typical failure window for the 2.0 diesel per a parts retailer; NHTSA owners report petrol failures too FORUM/BLOG [7]




WHAT FAILS FORUM/BLOG [7][1]

A parts retailer reports the timing chain on the 2.0 Ingenium diesel stretching, linked to oil diluted by fuel during DPF regeneration and worn plastic guides. NHTSA owners also report broken or jumped chains on 2.0 petrol Discovery Sports, often ending in a new engine.

SYMPTOMS

- Rattle on cold start
- Cam/crank correlation codes
- Engine stops and will not restart

IF IT'S LEFT TOO LONG

A jumped or broken chain usually means a replacement engine.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Change oil on time (sooner with short trips); act on any rattle or correlation code.

ESTIMATED REPAIR COST

| | |
|---|---|
| No published US price | **Our price is in the plan above**<br>ask us for a written quote |
| No published US price | **No published price**<br>reported range for the bill after a failure |

PARTS FOR L550

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

QUESTIONS TO ASK US

- Any rattle at start-up? Oil change interval?

5 · ALSO REPORTED, NOT RANKED

## Other themes in 2.0 / 3.0 Ingenium 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** | 103 | Mixed causes (fuel, mild-hybrid, sensors, chain); includes the 2018 fuel rail end cap recalls. |

# 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 2018-on Discovery Sport, Evoque and E-Pace complaints and 2021–2024 Discovery complaints; Velar, Defender, 2018–2020 XE, XF and F-Pace complaints leaving out V6, V8 and supercharged versions; 2017 XE complaints that name the diesel; F-Type complaints that name the 2.0 or four-cylinder; 2020–2023 Range Rover and Range Rover Sport complaints that name the inline six or mild hybrid. Complaints that do not name the engine are missed on the shared nameplates, so those counts under-count: 816 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. No US prices were found for the main jobs on this engine. COMPUTED FROM NHTSA DATA

| THEME | COMPLAINTS IN THIS REPORT | |
|---|---|---|
| Stalling / loss of power | 103 | Also reported |
| Coolant leak | 41 | Item 1 |
| Cam timing / VCT | 12 | Item 3 |
| Timing chain | 10 | Item 4 |
| Oil dilution (diesel) | 5 | — |
| Thermostat | 2 | 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 Ingenium 2.0 four-cylinder and 3.0 inline six: 2017–2025 Discovery Sport, 2018–2025 Evoque, 2018–2024 Velar (four/six), 2020–2025 Defender, 2021–2024 Discovery, Jaguar E-Pace, XE, XF (2017 on) and F-Pace (four-cylinder), pulled Oct 27, 2026 (ODI numbers in the cost notes) OFFICIAL
https://www.nhtsa.gov/report-a-safety-problem#complaints

2. Land Rover SSM76249: Ingenium I4 2.0L petrol: thermostat housing coolant leak (2020–2024 Defender, Discovery, Discovery Sport, Evoque, Velar) (2025-02-03), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2025/MC-11015332-0001.pdf

3. Jaguar SSM75559: Coolant leak from the thermostat (Jaguar E-Pace, F-Pace, XE, XF) (2021-10-20), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2021/MC-10202945-0001.pdf

4. Land Rover Field communication SFCC NOV 2024: Leaking coolant pumps, 2.0L petrol (2018–2024 Velar, F-Pace; 2020–2024 Evoque; 2021–2024 Discovery Sport; E-Pace, F-Type, XF, XE) (2024-11-15), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2024/MC-11011023-0001.pdf

5. Land Rover NAS20.07.001: Service actions H291 and N451 (coolant pump operation) reinstated (2020-07-01), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2020/MC-10178081-0001.pdf

6. Land Rover Service actions N481 / H299: Replace variable camshaft timing (VCT) solenoids to prevent wear, MIL and no start (2018–2020 AJ20P4 2.0 petrol) (2020-11-19), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2020/MC-10183529-0001.pdf

7. LR Direct: 2.0 Ingenium timing chain faults (parts retailer technical guide) FORUM/BLOG
https://www.lrdirect.com/technical-guides/2-0-ingenium-timing-chain-faults

8. NHTSA recall records: 18V-087 / 18V-090 (2018 2.0 petrol fuel rail end caps), 23V-044 / 23V-045 (Ingenium six cam carrier oil channel), 24V-450 / 24V-451 (oil filter housing crack), 17V-286 (2017 XE diesel fuel return hose), checked Oct 27, 2026 OFFICIAL
https://www.nhtsa.gov/recalls?nhtsaId=18V087000

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.

### Trademarks and independence

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