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

2016 Volvo XC90 at 95,000 mi

YV4A22PK5G1123456

MODEL / CHASSIS	ENGINE	MILEAGE	DRIVETRAIN
XC90 · XC90 T6 AWD (SPA)	Volvo Drive-E VEA 2.0 four-cylinder (T5, T6, B5, B6)	95,000 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 '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

0
to plan in the next 30,000 miles · plus 2 factory maintenance items

3
to watch or check at each service

Safety recalls NHTSA lists for this model year (6 of 7)

- **19V-308** · Engine cooling · bleeder hose: The coolant bleeder hose can crack; leaking coolant can soak the exhaust heat shield and catch fire.
- **23V-827** · Seat belts · second-row bolts: Second-row seat belt buckle and anchor bolts may not be tight and may not hold in a crash.
- **16V-798** · Seat belts · front passenger buckle: The front passenger buckle stud can loosen and the buckle can separate. Built February 2015–August 2016.
- **16V-690** · Air conditioning · drain hose: A badly fitted A/C drain hose can leak into the cabin and affect air bag electronics.
- **15V-497** · Air bags · third-row curtain: Third-row curtain air bags may not fully inflate. Built January–July 2015.
- **15V-342** · Air bags · front seat side: Front seat side air bag wiring may be routed wrongly and damaged, disabling the air bag. Built January–May 2015.

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

Step 0 · Free: run the VIN at nhtsa.gov/recalls and ask a Volvo dealer for a campaign printout, including 19V-308. 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

Oil consumption (piston rings): Inside the range (79,000–98,000 mi, the middle half of 23 owner reports) · if it fails: $2,750

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 107,000 mi

Nothing scheduled here.

Within the next 30,000 miles up to 125,000 mi

Nothing else enters its reported range in this window.

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

VVT pulley plug oil leak — Ask us for a quote

Any mileage (B4204T11 2016–2018 and other variants) · Inspect at each service; fix at the first sign

Coolant leaks (bleeder hose, coolant pump)

Free if covered check the VIN

Any mileage (2016 XC90 bleeder hose recall; coolant pump replacements) · Inspect at each service; fix at the first sign

Low pressure fuel sensor — Ask us for a quote

Any mileage (2015–2016 models; 8-year / 80,000-mile extension, now ended) · Inspect at each service; fix at the first sign

Recommended now

$165

Springfield Euro Auto prices (example)

Planned through 125,000 mi

$643

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 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

Scheduled maintenance from 95,000 mi to 125,000 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 Every 60,000 miles.	every 60,000 mi	**Was due at 60,000 mi, next 120,000 mi** [M1][M2]	**$329**
Brake fluid Volvo: every 3 years.	every 3 years	**By time: check the records** [M2]	**$149**
Automatic transmission fluid Volvo lists only leak/level checks for the automatic transmission, no scheduled change.	no fixed interval	— [M2]	—

M1. Volvo 2013 Warranty and Maintenance Records Information, U.S./Canada (dealer-hosted copy) OFFICIAL
https://pictures.dealer.com/volvooflislevcna/2013-Volvo-Warranty-Manual.pdf

M2. Volvo 2025 PHEV/MHEV Schedule of Factory Maintenance Service Operations OFFICIAL
https://azure-eu-assets.contentstack.com/v3/assets/bltccbab8edae0354cd/blt1f1676a16c88494e/6a29cb4fc1351a105b5ed89d/2025_FSM_Maintenance_Sheets_PHEV_MHEV_6.8.26.pdf

WHERE 95K SITS FOR EACH WEAK POINT

#	WEAK POINT	REPORTED RANGE	THIS CAR
1	Oil consumption (piston rings)	79,000–98,000 mi (middle half of 23 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA	● Inside the range
2	VVT pulley plug oil leak	B4204T11 2016–2018 and other variants OFFICIAL	● Any mileage
3	Coolant leaks (bleeder hose, coolant pump)	2016 XC90 bleeder hose recall; coolant pump replacements OFFICIAL	● Any mileage
4	Low pressure fuel sensor	2015–2016 models; 8-year / 80,000-mile extension, now ended 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 Volvo XC90

Safety recall repairs are free at Volvo 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 YV4A22PK5G1123456.
2. Note every recall shown as “Recall incomplete” and keep a screenshot.
3. Ask a Volvo dealer for a campaign printout; it also lists completed campaigns.

2.0 DRIVE-E (VEA) RECALLS WE TRACK

19V-308 · Coolant bleeder hose can crack (2016 XC90) NHTSA lists this model and year: check by VIN

Heat and humidity may crack the engine coolant bleeder hose and leak coolant. Free repair. OFFICIAL [7]

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

EVERY RECALL NHTSA LISTS FOR THE 2016 VOLVO XC90 (7)

RECALL	COMPONENT	WHAT CAN HAPPEN (NHTSA, SHORTENED)
19V-308 2.0 Drive-E (VEA) tracked	Engine cooling · bleeder hose	The coolant bleeder hose can crack; leaking coolant can soak the exhaust heat shield and catch fire. Details
23V-827	Seat belts · second-row bolts	Second-row seat belt buckle and anchor bolts may not be tight and may not hold in a crash. Details
16V-798	Seat belts · front passenger buckle	The front passenger buckle stud can loosen and the buckle can separate. Built February 2015–August 2016. Details
16V-690	Air conditioning · drain hose	A badly fitted A/C drain hose can leak into the cabin and affect air bag electronics. Details
15V-497	Air bags · third-row curtain	Third-row curtain air bags may not fully inflate. Built January–July 2015. Details
15V-342	Air bags · front seat side	Front seat side air bag wiring may be routed wrongly and damaged, disabling the air bag. Built January–May 2015. Details
16V-268	Sunroof · close switch	The sunroof switch can be pressed by accident and close the roof on someone. Details

Source: NHTSA recalls API, fetched 2026-10-27 and combined across NHTSA model names: XC90. 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 (XC90): 21V-273 (rear seat control display) covers the XC90 Excellence, a four-seat plug-in hybrid, and is left out of this T6 sample; a VIN check would show it if it applied.

SERVICE ACTIONS, BULLETINS AND WARRANTY PROGRAMS

CAMPAIGN	WHAT IT SAYS	THIS CAR
VEP4 oil consumption extended warranty (P10186)	8 years from delivery or 100,000 miles: oil consumption test, then piston rings or engine. Covered 2015–2016 models; ended. OFFICIAL [2]	Expired
Low pressure fuel sensor extension (P29929)	8 years / 80,000 miles for 2015–2016 models. Ended. OFFICIAL [9]	Expired

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 (SPA).

1 Oil consumption (piston rings)

Inside the range

Severity: High: overheating, stalls, limp mode or a big bill · 93 mentions in counted NHTSA complaints COMPUTED FROM NHTSA DATA

At 95,000 mi this car is inside the reported range (79,000–98,000 mi (middle half of 23 owner complaints that state a mileage)), 16,000 miles past where reports start. Range: 79,000–98,000 mi (middle half of 23 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]



Applies to: 2015–2016 VEP4 engines; extension ran 8 years from delivery / 100,000 miles and has now ended for these years

WHAT FAILS OFFICIAL [2][3]

Some early Drive-E engines burn too much oil. Volvo ran an extended warranty with a dealer oil consumption test, then piston ring or engine replacement. Volvo also has a bulletin for the low oil level message on these engines.

SYMPTOMS

- "Oil level low" message between services
- Needs oil top-ups
- Blue smoke

IF IT'S LEFT TOO LONG

Running low on oil can damage bearings and the turbo.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Measure oil use before buying; a ring job is a long engine-out job.

ESTIMATED REPAIR COST

Labor only, 11.6–17.8 h Volvo warranty time plus piston rings	**Our price is in the plan above** ask us for a written quote
Owner-reported typical repair cost, 2015 S60	**$2,750** FORUM/BLOG [4] reported range for the bill after a failure

Where the numbers come from: Estimate: Volvo warranty labor time of 11.6–17.8 h (bulletin [2]) × $100–$160/h independent-shop labor rate [5]. Parts are extra unless stated; check the VIN for open warranty coverage first. Parts are extra.

PARTS FOR SPA

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

QUESTIONS TO ASK US

- Oil use per 1,000 miles?
- Pistons or rings replaced under P10186?

2 VVT pulley plug oil leak

Any mileage

Severity: Medium: leaks and wear · 9 mentions in counted NHTSA complaints
COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (B4204T11 2016–2018 and other variants), so mileage doesn't say much here.
Range: B4204T11 2016–2018 and other variants OFFICIAL [6]

WHAT FAILS OFFICIAL [6]

The plug in the variable valve timing pulley can crack and leak oil. Volvo says the customer may see a low oil level warning and oil leakage.

SYMPTOMS

- Low oil level warning
- Oil leak at the front of the engine

IF IT'S LEFT TOO LONG

Oil loss can starve the engine.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Replace the plug at the first leak.

ESTIMATED REPAIR COST

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

PARTS FOR SPA

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

QUESTIONS TO ASK US

- Any oil leak repairs at the timing end?

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3 Coolant leaks (bleeder hose, coolant pump)

Any mileage

Severity: Medium: leaks and wear · 24 mentions in counted NHTSA complaints
COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (2016 XC90 bleeder hose recall; coolant pump replacements), so mileage doesn't say much here. Range: 2016 XC90 bleeder hose recall; coolant pump replacements OFFICIAL [7][8]

WHAT FAILS OFFICIAL [7][8]

On 2016 XC90s, heat and humidity can crack the coolant bleeder hose (recall 19V-308). Volvo also has a bulletin for a high temperature warning after a coolant pump is replaced.

SYMPTOMS

- Coolant level low
- Coolant smell
- High temperature warning

IF IT'S LEFT TOO LONG

Coolant loss can overheat the engine.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Check recall 19V-308; fix leaks promptly.

ESTIMATED REPAIR COST

Free under recall 19V-308 (2016 XC90 bleeder hose)	**Free if covered** OFFICIAL [7] published independent-shop range
No published price	**No published price** reported range for the bill after a failure

PARTS FOR SPA

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

QUESTIONS TO ASK US

- Recall 19V-308 done?
- Coolant pump replaced?

4 Low pressure fuel sensor

Any mileage

Severity: Medium: leaks and wear · 5 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (2015–2016 models; 8-year / 80,000-mile extension, now ended), so mileage doesn't say much here. Range: 2015–2016 models; 8-year / 80,000-mile extension, now ended OFFICIAL [9]

WHAT FAILS OFFICIAL [9]

Wire bonding inside the low pressure fuel sensor can be damaged over time and set the check-engine light with P018C00. The fix is a new sensor.

SYMPTOMS

- Check-engine light
- P018C00 stored

IF IT'S LEFT TOO LONG

Mostly a warning-light fault.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Replace the sensor.

ESTIMATED REPAIR COST

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

PARTS FOR SPA

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

QUESTIONS TO ASK US

- Fuel sensor replaced?

5 · ALSO REPORTED, NOT RANKED

Other themes in 2.0 Drive-E (VEA) 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 / hesitation	138	Mixed causes (transmission, start-stop, sensors); not one engine fault.
Engine failure	25	Mixed causes, often after oil loss; see the oil consumption weak point.

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/Volvo 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 Complaints for these nameplates and trims; 2015–2018 S60, V60 and XC60 and 2015–2016 S80 and XC70 complaints leaving out the six-cylinder, diesel and hybrid: 1,510 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. `COMPUTED FROM NHTSA DATA`

THEME	COMPLAINTS	IN THIS REPORT
Stalling / hesitation	138	Also reported
Oil consumption	93	Item 1
Engine failure	25	Also reported
Coolant	24	Item 3
Oil leak	9	Item 2
Fuel sensor / check engine	5	Item 4

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 Drive-E 2.0 four-cylinder (T5, T6, B5, B6) in 2015–2025 XC90, XC60, XC40, S60, V60, S90, V90 and Cross Country, plus 2015–2016 S80 and XC70, pulled Oct 27, 2026 (ODI numbers in the cost notes) `OFFICIAL`
https://www.nhtsa.gov/report-a-safety-problem#complaints

2. Volvo Extended Warranty P10186: VEP4 oil consumption: test, piston ring or engine replacement (2015–2016 S80, S60, XC70, V60, XC60; 2016 S60L, XC90) (2023-08-22), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2023/MC-10242508-9999.pdf

3. Volvo TJ 31216: Drive-E: low oil level message in the driver display (2019-10-16), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2019/MC-10169029-9999.pdf

4. CarComplaints: 2015 Volvo S60 excessive oil consumption, via search extract Oct 27, 2026 `FORUM/BLOG`
https://m.carcomplaints.com/Volvo/S60/2015/engine/excessive_oil_consumption.shtml

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

6. Volvo TJ 29131: Oil leakage from the plug in the VVT pulley (B4204T11 and others) (2017-10-21), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2017/MC-10128162-9999.pdf

7. NHTSA recall records: 19V-308 (2016 XC90 coolant bleeder hose), checked Oct 27, 2026 `OFFICIAL`
https://www.nhtsa.gov/recalls?nhtsaId=19V308000

8. Volvo TJ 36858: High temperature message after coolant pump replacement (2024-06-12), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2024/MC-11006558-0001.pdf

9. Volvo Extended Warranty P29929: Low pressure fuel sensor, 2015–2016 S60, V60, XC60, S80, XC90, XC70 (8 yr / 80k) (2019-05-25), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2019/MC-10161783-9999.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 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 Volvo dealer or qualified shop. Safety recall repairs are free at Volvo dealers. Confirm recalls for this VIN at nhtsa.gov/recalls.

No warranty

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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.