

Coolant Warning Light Lights Up: Supposed Coolant Loss on the Coolant Pump (167/23)

Vehicle Type: **Cayenne (9YA / 9YB) / Cayenne S (9YA / 9YB) / Cayenne E-Hybrid (9YA / 9YB)**

Model Year: **As of 2018**

Equipment: 2.9-liter twin-turbo V6 engine **(M-No. TV8)**
 3.0-liter V6 turbo engine **(M-No. T9I)**

Concerns: **Coolant pump**

Cause: **Customers complain that the “Coolant too low” message or a loss of coolant on the vehicle. A supposed coolant loss on the coolant pump is determined in the workshop.**
 In order to prevent repeated and unnecessary repairs, a potential leak must be precisely defined. It must be ensured that the coolant level in the coolant reservoir has not dropped due to potentially insufficient ventilation during production or a previous repair.



Information

The visual inspection can show that small traces of coolant are detected at the weep hole of the coolant pump.
 Due to lubrication/cooling of the lip seal on the coolant pump, up to **3 ml coolant per 100 operating hours** can escape. Coolant outlet to this extent can be considered normal and does not constitute grounds for complaint. ⇒ *Traces of coolant on coolant pump*



Traces of coolant on coolant pump

Action: Check cooling system for leaks and replace any affected components.

Required tools

- Tools:
- **V.A.G 1274B - Cooling system testing unit**
 - **V.A.G 1274/8 - Adapter for cooling system tester**
 - **V.A.G 1274B/15 - Adapter for cooling system tester**
 - Torque wrench, 2-10 Nm (1.5-7.5 ftlb.), e.g. **V.A.G 1783 - Torque wrench, 2-10 Nm (1.5-7.5 ftlb.)**

Checking cooling system

Work Procedure: 1 Narrow down leaks in the cooling system and then proceed as described below.

- 1.1 Eliminate traces of coolant and **thoroughly** clean and dry any potential leaking.
- 1.2 Fill cooling system to **MAX**.
- 1.3 Carry out visual inspection of a possible leakage at idle speed and at a higher engine speed up to approx. 2500 rpm.
- 1.4 Check cooling system for leaks according to Workshop Manual.
For procedure, see: ⇒ *Workshop Manual '190101 Check cooling system'*
- 1.5 Re-evaluate original leak.

Assessment		Action
(✓)	No further coolant leak can be detected at the affected location.	Continue observing, a part replacement is not required. End of remedial action.
(x)	New coolant leak can be detected at the affected location.	Replace component causing damage.

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
19010140	Check cooling system	

PCSS encryption:

Location (FES5)	19500	Coolant pump
Damage type (SA4)	5000	leak

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