

### 95B.III – Macan In-Line 4 Cylinder Engine–DME Fault P25AC00/00426A

#### Vehicles Affected

Models	Model Year	Model Type	VIN Range	Vehicle-Specific Equipment
Macan	As of 2022	95BAU1, 95BAN1	n/a	R4 engine

#### Revision History

Revision	Release Date	Changes
0	March 23, 2023	Original document

#### Condition

Check Engine light due to fault code “P25AC00/00426A Oil pressure switch – signal implausible.”

#### Technical Background

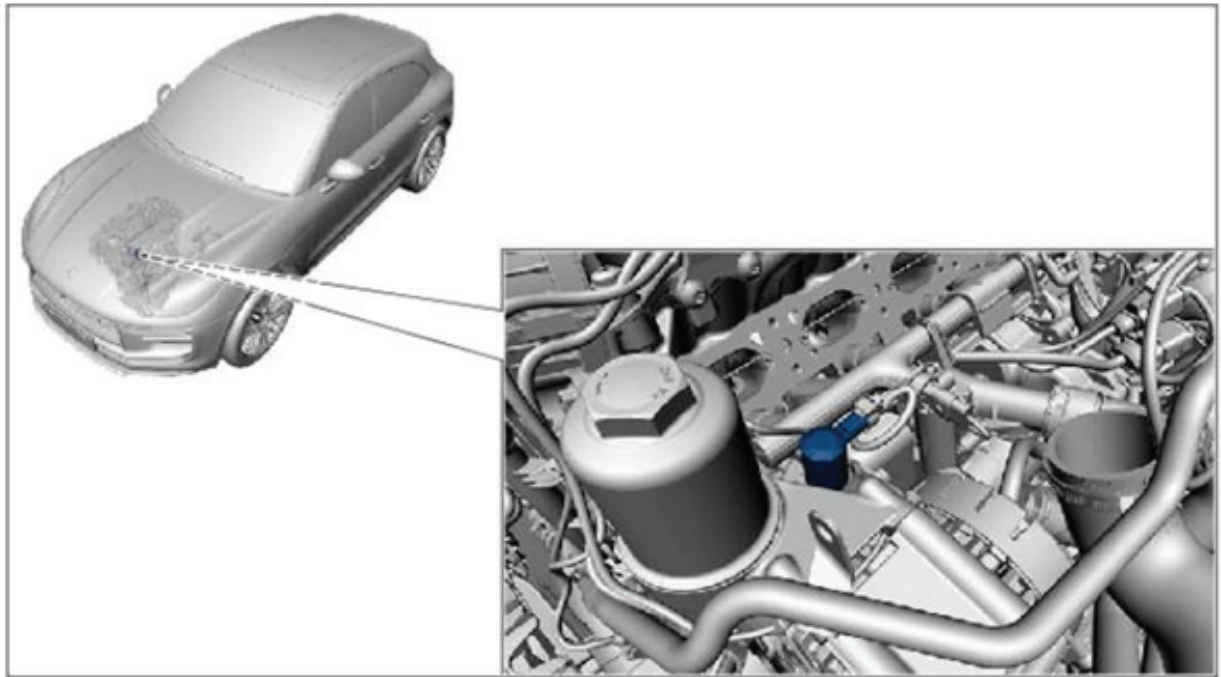
Swarf/debris from manufacture can prompt the aforementioned failure entry. This error is arguably misleading due to the fault description citing an oil pressure switch. Analysis shows swarf actually binds the control valve for the piston spray nozzles, not necessarily an oil switch, initially. In fact, the part to replace at the onset of this fault is correctly cited in Guided Fault Finding (GFF), albeit the present GFF for this fault is confusing. If there is visible evidence of scoring or otherwise damage to the control valve, then it's very likely the issue caused by swarf/debris which lead to the fault.

#### Service Information

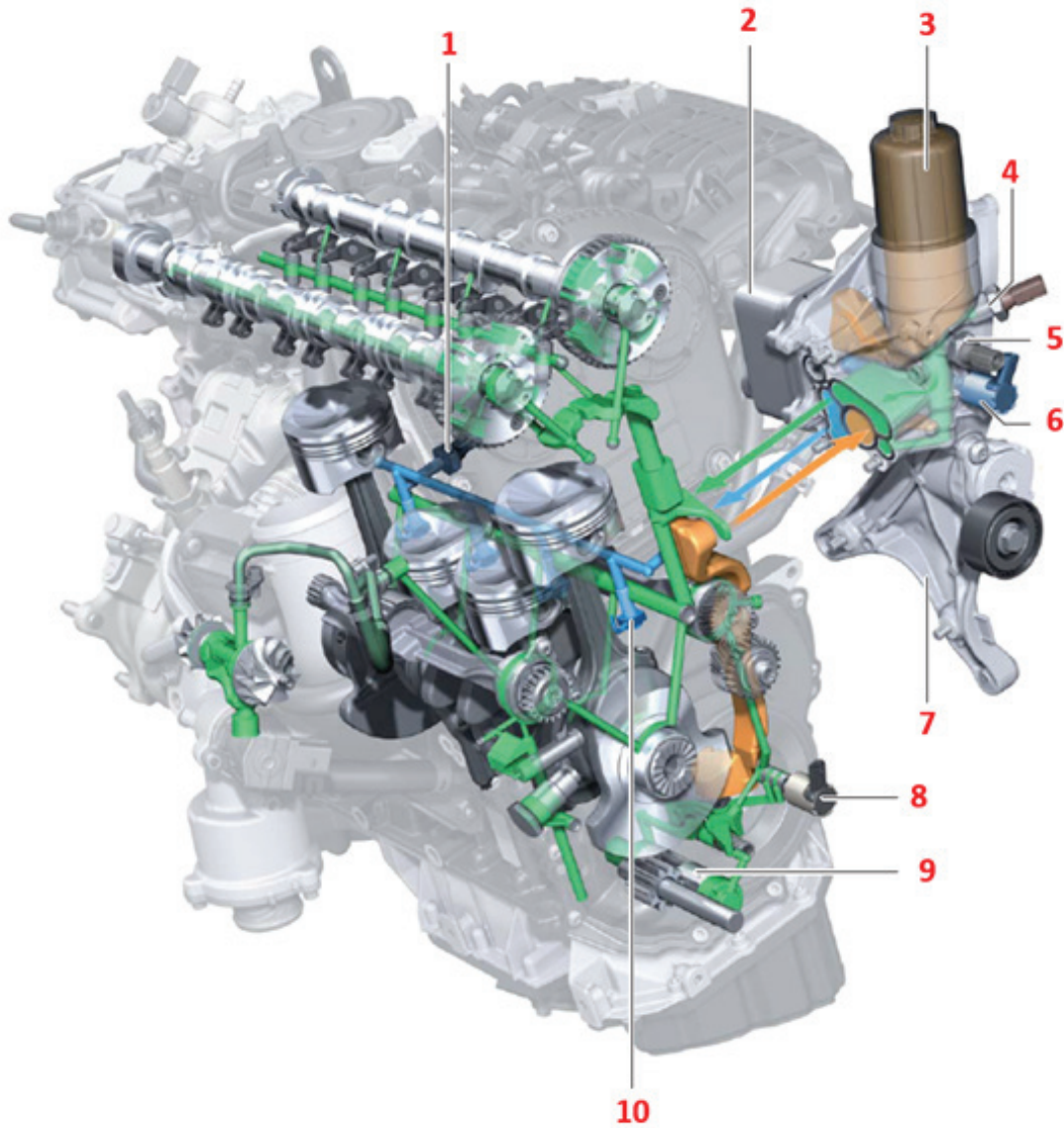
Please diagnose the aforementioned fault in accordance with this ATI until the existing instructions in Guided Fault Finding (GFF) releases.

1. Remove and replace the Oil Pressure Control Valve for Piston Cooling (9A7115243A) according to WM 172519 (highlighted blue in Figure 1 below for 2022+ R4 Evo engines, shown as location 6 in Figure 2 for pre 2022 R4 engines). Please also clean any excess debris around the valve's mating surfaces and galleys.
2. Perform an oil and filter change

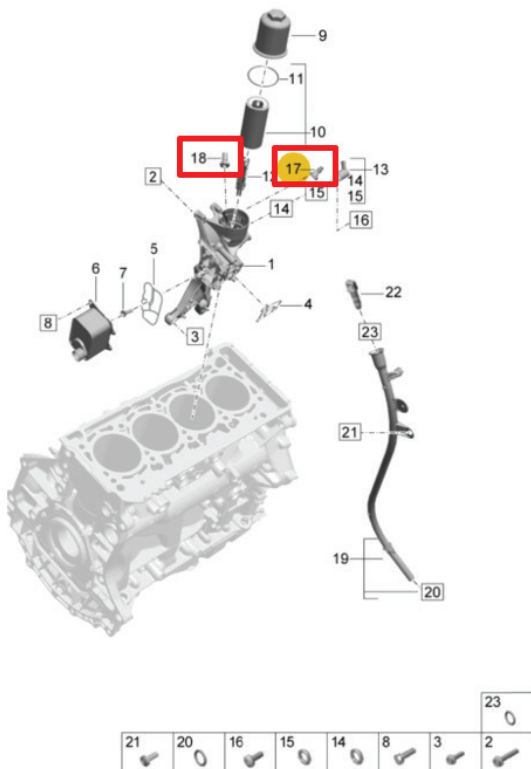
3. If there are no permanent damages to the internal oil channels of the oil filter housing, clear fault and road test with new valve.
4. If the issue persists, replace the two oil pressure switches (PAC919081 and 958919081120) in positions 4 and 5 of Figure 2, or alternatively positions 17 and 18 from Figure 3.



**Figure 1:**  
Installation position of control valve 9A7.115.243.A on R4 Evo with  
intake manifold removed from WM 172519.



**Figure 2:**  
GFF diagram with locations of relevant oil circuit components for pre-2022 R4 engine.



5	958 117 070 00	gasket for oil cooler	
6	958 117 021 10	oil cooler	
7	958 103 208 00	valve	
8	N 911 976 01	Hexagon socket head bolt (combi)	M6X20 aluminium
9	958 115 408 10	oil filter housing	
10	958 115 562 01	oil filter With seal	
11		gasket * single parts no available * alternatively, you can use:	958 115 562 01
12	958 115 678 20	adapter	
13	958 115 243 30	control valve discontinued part	
(13)	9A7 115 243	control valve	
14	WHT 007 316	O-Ring	5,28X1,78
15	WHT 007 317	O-Ring	7,5X1,5
16	N 910 967 01	Oval hexagon socket head bolt	M6X16
17	PAC 919 081	oil pressure switch	2,15-2,95BAR
18	958 919 081 20	oil pressure switch	0,55-0,85BAR
19	958 115 610 10	guide tube oil dipstick	
20	WHT 003 463	O-Ring	11,8X2,5
21	N 104 514 09	Hexagon socket flat head bolt, self-locking	M6X16
22	958 115 418 30	Sealing cap oil dipstick	
23	WHT 002 784	O-Ring	9,5X2
24	000 043 210 46	engine oil Exxon Mobil 1 ESC x2 0W-20 Standard C20	1,0ltr.
(24)	000 043 210 47	engine oil Exxon Mobil 1 ESC x2 0W-20 Standard C20	1QUARTER US

**Figure 3:**

View of oil pressure switches PAC919081 and 958919081120 at locations 17 and 18 in PET illustration.

## Warranty

As always, please document the repair completely in PQIS.

For this repair, please code the "cause" as follows:

Cause location: 17250 Piston spray nozzle

Cause symptom: 1613 No function occasionally

## Search Items

Macan, Macan T, oil pressure, R4, R4 Evo, 95B II, 95B III, P25AC00/00426A Oil pressure switch – signal implausible

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