

### Downstream Oxygen Sensor Error(s) – “Slow Response – Rich to Lean”

#### Vehicles Affected

Models	Model Year	Model Type	VIN Range	Vehicle-Specific Equipment
Cayenne	2020	9YABB1, 9YBBB1	N/A	N/A

#### Revision History

Revision	Release Date	Changes
0	June 4, 2020	Original document

#### Condition

Downstream oxygen sensor errors P013B00 (005C35, Bank 1) and P013D00 (005C3B, Bank 2) - 'Slow Response – Rich to Lean' of the 2.9 liter bi-turbo V6 engine for the Cayenne S and Cayenne S Coupé occurring under the following operating conditions:

- Low engine speed (1200 – 1500 rpm)
- Calculated engine load at approximately one-third (25 – 35%)
- Engine temperature approaching or at operating temperature (50 – 100°C)
- Low vehicle mileage (0 – 500 miles)

#### Technical Background

An increased diagnostic sensitivity occurring under specific engine operating conditions, as described above, can cause the aforementioned faults to set the engine's malfunction indicator lamp (MIL). In cases seen thus far exhibiting these faults under the described operating conditions, changing the engine oil and filter is proving to cease the faults' occurrences. This matter is under investigation.

### Service Information

After recording a Vehicle Analysis Log (VAL), determine the reproducibility of the faults by driving the vehicle within the operating ranges seen in the faults' environmental data in the VAL. Perform an oil and oil filter change; and drive the vehicle again to verify the repair.

### Warranty

As always, please document the case completely in PQIS.

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

Cause location: 24730 "O2S behind cat. converter"

Cause symptom: 1614 "Function not as specified"

Use the following troubleshooting labor operation:

03350000 On board diagnostic (Main work) Fault memory read out

03350053 On board diagnostic (Composite) VAL

17011760 Engine oil drain and fill (Composite work)

17305560 Oil filter replace (Composite work)

### Search Items

E3, oxygen (lambda) sensor, P013B00 (005C35, Bank 1), and P013D00 (005C3B, Bank 2) - 'Slow Response – Rich to Lean,' 2.9 liter bi-turbo V6, Cayenne S, Cayenne S Coupé

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