

Crankcase/Pistons/Piston Rings Need to Be Replaced - Mixed Installation is Not Permitted (25/13)



Information

This Technical Information replaces the TI dated May 8, 2013.

Changes/additions compared to the previous Technical Information:

- ▶ Section 'Situation – Spare parts requirements' for **pistons and piston rings**:
Text changed to "**now available again**".

Vehicle Type: **Cayenne S (9PA)/Cayenne Turbo (9PA)/Cayenne Turbo S (9PA)**
Cayenne S (92A)/Cayenne Turbo (92A)
Panamera/Panamera S/Panamera Turbo/Panamera Turbo S

Model Year: **As of 2008**

Concerns: **Cylinder liner in crankcase**

Information: **If piston rings/pistons or the crankcase need to be replaced, a mixed installation can damage the cylinder liner.**

NOTICE

Combination of piston rings and crankcase.

- **Risk of damage to cylinder liner.**
- ⇒ **Observe specifications for permissible combinations.**

Due to

- **modified production methods** during the manufacture of the crankcase ⇒ from **smooth honing to structural honing**
- and the use of a **different coating on the piston rings** (now DLC-coated)

only the **combinations specified below are permitted.**

⇒ Before carrying out any other work, check whether the cylinder liners are smooth-honed or structurally honed:

A) Cylinder liners are smooth-honed (⇒ *Figure 1*, old - crankcase no longer available)

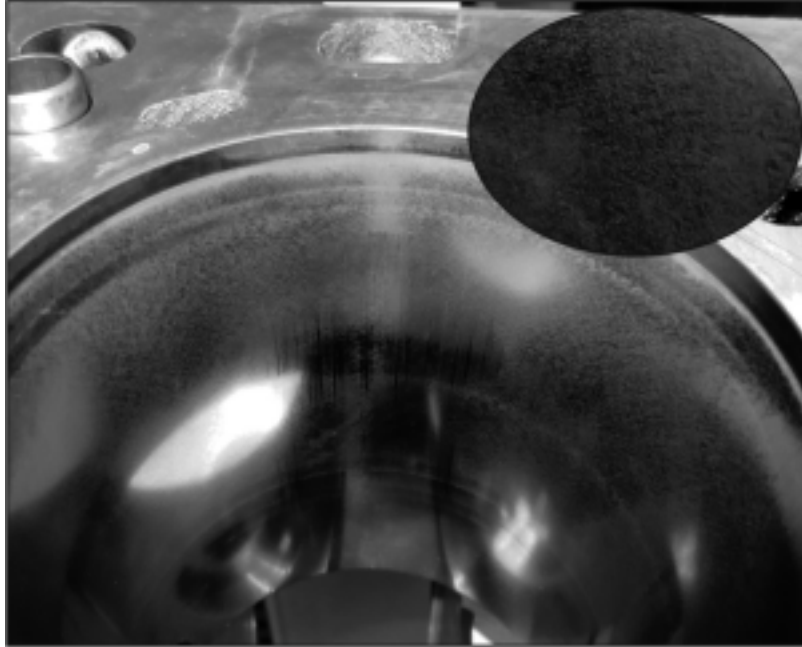


Figure 1

• **Spare parts requirements:** One or more pistons and piston rings (old type without DLC coating ⇒ **now available again**)

⇒ **All pistons with piston rings can be replaced again in the usual way.**

• **Spare parts requirements:** Crankcase (old type, smooth-honed - no longer available)

⇒ All pistons with piston rings and the crankcase must be replaced with new components.

* When replacing the crankcase, refer to TI 24/13 ⇒ *Technical Information '135900 Crankshaft sealing ring (transmission side) needs to be replaced: Checking press-in depth (24/13)'*.

B) Cylinder liners are structurally honed (⇒ *Figure 2*, new type)

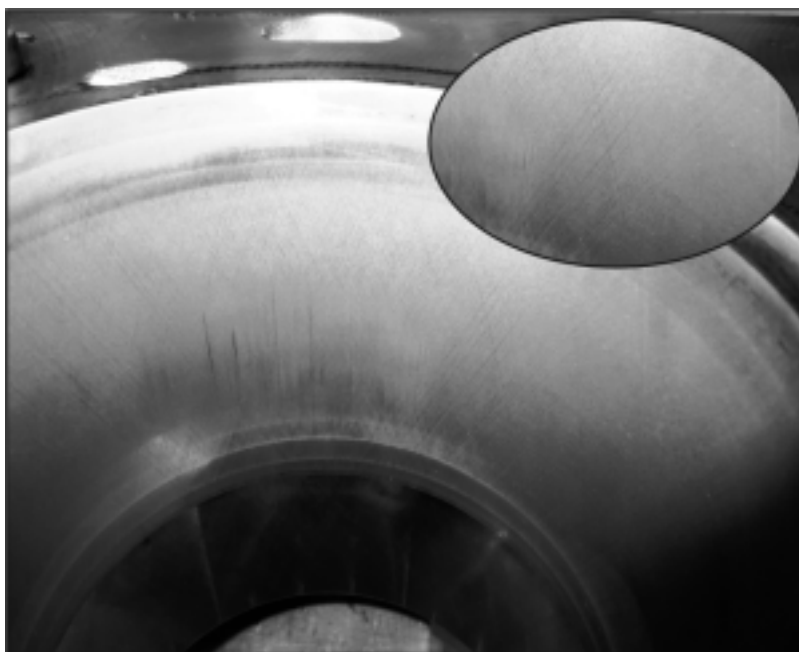


Figure 2

• **Spare parts requirements:** One or more pistons and piston rings
 ⇒ **Only replace the required piston(s).**

• **Spare parts requirements:** Crankcase
 ⇒ **Only replace the crankcase.**

* When replacing the crankcase, refer to TI 24/13 ⇒ *Technical Information '135900 Crankshaft sealing ring (transmission side) needs to be replaced: Checking press-in depth (24/13)'*.

Date of Introduction:

Only engines with structurally honed cylinder liners are used in vehicles as of the following engine numbers:

Vehicle type:	Engine type:	Engine number
Panamera	M4620	VC08746
Panamera 4	M4640	VC08729
Panamera S	M4820	C02097
Panamera 4S	M4840	C03992
Panamera Turbo	M4870	C03303
Panamera Turbo S	M4870	C03303
Panamera GTS	M4840G	D01925

Cayenne S	M4802	C12137
Cayenne Turbo	M4852	C05372

References: ⇒ *Workshop Manual '100137 Disassembling and assembling engine'*

Important Notice: Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.

© 2020 Porsche Cars North America, Inc.