911 Carrera 911 Carrera S 911 Carrera 4 911 Carrera 4S



## Positive crankcase ventilation

During combustion, every engine blows some of the combustion gases past the piston towards the crankcase - these gases are called blow-by gases. If these gases are not drawn off, the pressure in the crankcase would increase considerably. A vent connection is fitted in the crankcase for this reason. For environmental protection reasons, these gases are not released into the atmosphere but are sent back to the engine for combustion via the intake system.

Of course, these positive crankcase ventilation gases contain a high proportion of engine oil and other combustion residues as well as a lot of fuel residues in some cases. If these gases get into the intake duct, they will contaminate the intake air and can then impair running smoothness, exhaust emissions and reduce knock resistance. It is obvious for these reasons why effective oil separation is important for the engine.

## Oil supply

The oil supply in the new generation of engines has been essentially redesigned with the following objectives in mind:

- To ensure the supply of oil even during very high lateral and axial acceleration.
- To reduce friction and drive losses

The main differences between the new oil supply system and that used on previous models are as follows:

- Additional oil extraction point in the cylinder head
- · Electronic demand-controlled oil pump
- Additional watertight sheetmetal panel between crankcase and oil pan

