Full download: http://manualplace.com/download/volkswagen-service-training-the-30l-v6-tdi-engine/

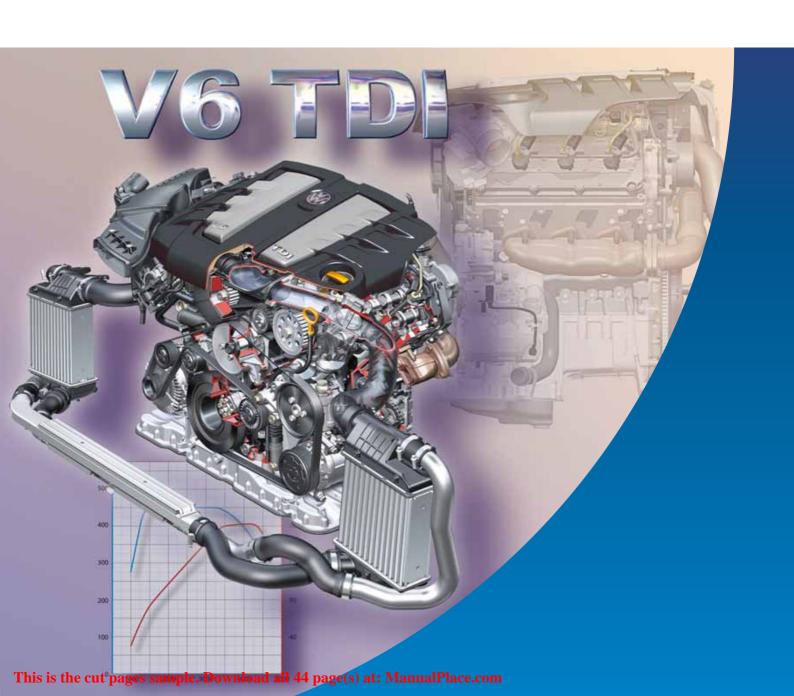
Service Training

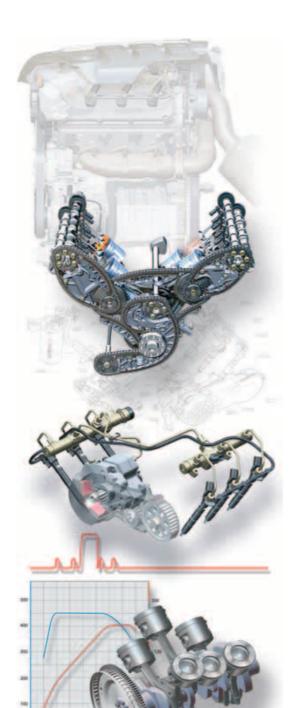


Self-study programme 350

The 3.0l V6 TDI engine

Design and function

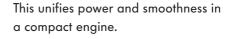






The range of engines fitted in the Phaeton and Touareg is being extended by a hightech turbodiesel engine.

The 3.0l V6 TDI engine has been developed by Audi and is equipped with a piezo-controlled common rail fuel injection system.



The engine is combined with a diesel particulate filter and meets the EU 4 exhaust emission standard.

NEW

S350_001

Attention Note

The self-study programme portrays the design and function of new developments!
The contents will not be updated.

For current testing, adjustment and repair instructions, please refer to the customer service literature intended for this purpose.

At a glance



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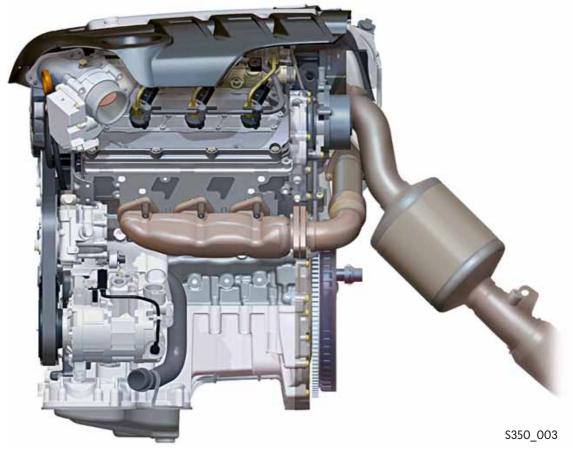
In brief



The 3.0l V6 TDI engine

The 3.01 V6 TDI engine is a new diesel engine developed from the Audi V engine family.

This engine family's special characteristic is its extremely short and compact design, which is achieved by means of a chain drive. The engine additionally combines high output and ample torque with smooth running characteristics and low exhaust emissions. A piezo-controlled common rail fuel injection system ensures high injection pressure and a flexible injection process. The engine is installed in the Volkswagen Phaeton and Touareg.



(View of the Phaeton engine)

Technical engine features:

- High-strength, compacted graphite iron cylinder block
- 4-valve technology
- Intake manifolds with swirl flaps
- Chain drive for valve control system, balancer shaft and oil pump
- Common rail fuel injection system
- Piezo-controlled injectors (piezo injectors)
- Diesel particulate filter