

ENGINE ALL**Information on avoiding damage**

⚠ The components and the areas surrounding them as well as any openings to the oil circuit opened up when changing the engine oil and filters must be cleaned before starting work.

For cleaning, use only clean tools and clean, lint-free rags. Do not clean soiled areas using compressed air, as this may in turn damage components (e.g. hot film MAF sensor) or contamination could enter the engine, ancillary equipment and detachable parts without being noticed!

The smallest dirt particles in the oil circuit can lead to damage of turbocharger or engine.

Oil change method

Engine oil should preferably be extracted when changing the oil on all vehicles (except vehicles with an AMG engine).

In particular, during service operations (Service A for cars) this is the most efficient work procedure.

It is still permissible to drain the engine oil where necessary.

Generally, on vehicles equipped with an AMG engine, the engine oil should be drained off.

i Extract or drain engine oil only when the engine is at operating temperature, i.e. coolant temperature min. 80 °C.

Other work can be performed while the engine is warming up.

⚠ Use a rag or pan to collect any oil dripping from components or tools.

Otherwise dripping oil can lead to irreversible soiling of the vehicle or damage, e.g. to the poly-V belt.

⚠ During the first engine start after an engine oil and filter change the engine rpm may not be increased until 10 seconds have elapsed since starting the engine.

Otherwise the turbocharger or engine may be damaged.

i Generally, new seals should be used when draining-off engine oil.

i Observe the notes on use from the vacuum unit manufacturer.

Engine oil suction unit - stationary gotis://S_18.1_01.1

Engine oil suction unit - mobile gotis://S_18.1_02.0

⚠ Extraction of the engine oil can be commenced immediately after the engine has been stopped. It must however be ensured that the extraction procedure is not stopped until at least 5 minutes after the engine has been switched off and the used oil filter has been removed. This gives the engine oil time to flow back into the oil pan. If necessary, the extraction procedure must be started several times before the 5 minutes have expired. It will otherwise not be possible to extract all of the engine oil.

The engine oil extraction probe is to be inserted into the oil measuring pipe until perceptible contact with the base of the oil pan is made. It will otherwise not be possible to extract all of the engine oil.

Any quantity of oil remaining in the engine can result in overfilling after pouring in the specified oil change quantity. This can then result in damage to the engine and catalytic converter.

⚠ The engine oil can be drained off immediately after the engine has been stopped. It must be ensured that the draining-off procedure is not stopped until at least 5 minutes after the engine has been switched off and the used oil filter has been removed, because only then has the engine oil flowed back into the oil pan. Otherwise not all of the engine oil will be drained off.

Any quantity of oil remaining in the engine can result in overfilling after pouring in the specified oil change quantity. This can then result in damage to the engine and catalytic converter.

Oil filter change

i Remove oil filter element only after the oil has drained out of the oil filter housing.

Generally, a new oil filter with new seals should be fitted.

Make sure that no used oil seals are left in the oil filter housing or on the oil filter mounting pedestal.

Apply light coating of grease to rubber seals before installation.