

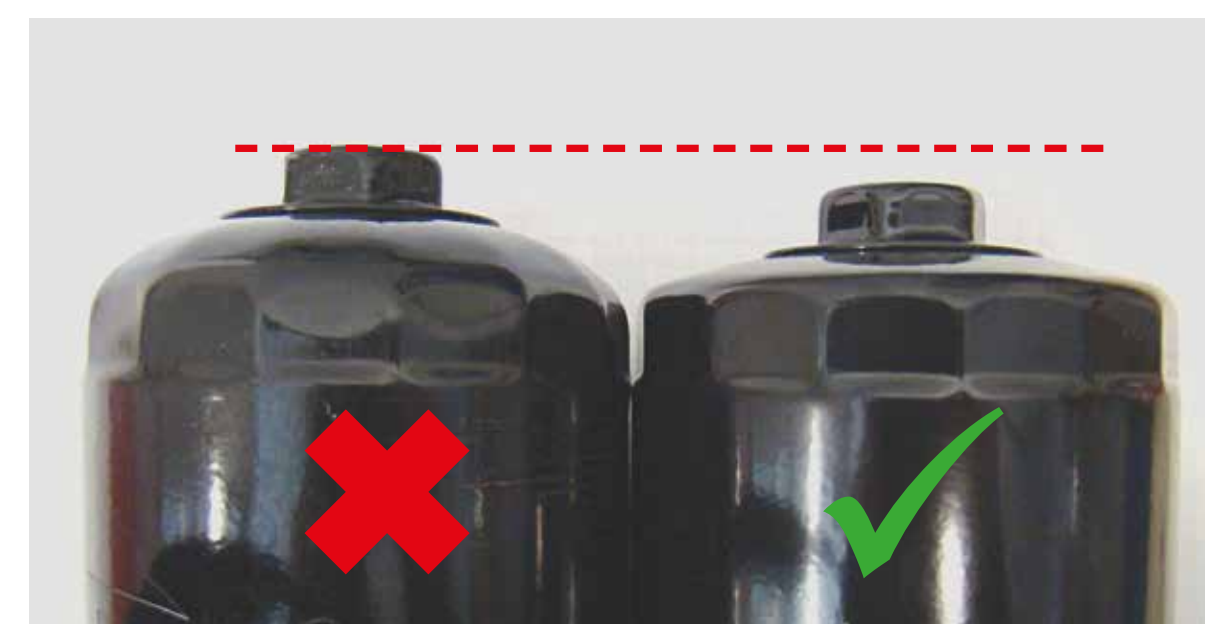
Oil filter fitting



1. Removal

- Always use a new filter when changing the oil.
- Drain the oil while the engine is at operating temperature. This will flush out contaminants, and the oil sump will drain fully.
- Loosen the filter using an appropriate tool.

- Protect other engine components from leaking oil (alternator, belt drive, etc.).
- Remove old gaskets and dispose of them in an environmentally friendly way.
- Dispose of the oil filter and used oil in an environmentally friendly way.



2. Inspection

- Compare the old filter with the new one.
- Inspect the filter flange: the old gasket and gasket residue must be completely removed.
- Watery deposits on the oil filler cap indicate an increased amount of condensation water in the oil—due to frequent short journeys, for example.

- Degraded or embrittled filter paper indicates that the replacement interval is too long or the temperature level too high.
- An expanded or burst filter indicates a jammed oil pressure regulating valve. (Deposits clog the valve, leading to high pressure peaks in the oil circuit.)
- A purifying oil flush helps to counteract carbon buildup and accumulation of other residue.



3. Fitting

- Only use new gaskets.
- Make sure the gaskets are properly seated. Sealing rings must not be fitted twisted.
- Coat the gaskets with fresh engine oil to prevent damage.
- On OX-type oil filter inserts, the nonwoven on the end cap acts as a gasket. Slightly more force must be applied when fitting these.
- Also coat the end cap with fresh engine oil.
- If possible, prefill the oil filter with fresh oil.

- Observe the correct installation direction (TOP mark).
- Tighten the filter as indicated.
- Important: Do not use the removal tool (OCS) to tighten spin-on filters (OC). This may damage the surface coating. Only tighten these filters by hand according to the torque specification.
- Top up with engine oil—make sure it is manufacturer-approved.
- Start the engine and let it run for a short time.
- Then check the oil level and top up if necessary.

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