

# Tips & Technology

For Bosch Partners

Current topics for successful workshops No. 10/2015

Miscellaneous Subject



**BOSCH**

Invented for life

## Oil filter

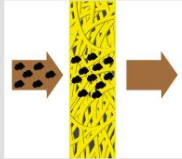
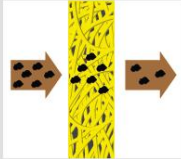




The function of oil is to minimize the wear and tear and friction, the conduction of heat, the fine sealing and protection against corrosion. The function of the oil filter is to protect the engine against contaminations (dust, metal debris, combustion residues, soot particles).




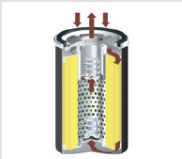
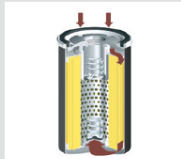
### **Take good care of the Bosch filter, as it is good and rather expensive**

That is why it is better not to take a chance in the care of high-quality and sensitive engine components. Because only quality filters are worth their money and they deliver what they promise.

When it comes to filters, whoever cuts expenses in the wrong place, risks incurring expensive consequential damage as shown hereinafter:

Bosch High-Quality Oil Filter Filter Medium	Low-Quality Oil Filter Filter Medium	⚠ Expensive Consequences
<p>High particle-separation rate by microporous filter medium</p> 	<p>Low-quality filter medium</p> 	<ul style="list-style-type: none"> <li>▶ Increased wear of the engine</li> <li>▶ Possible increase in fuel consumption</li> </ul>
<p>Large dust-holding capacity through high number of pleats</p> 	<p>Small number of pleats</p> 	<ul style="list-style-type: none"> <li>▶ Inadequate filtration of the oil</li> <li>▶ Increased wear up to engine damage</li> <li>▶ Reduced service life</li> </ul>
<p>Reliable filtration thanks to meticulous processing and stable pleat geometry</p> 	<p>Unstable pleat geometry, excess of glue</p> 	<ul style="list-style-type: none"> <li>▶ Reduced engine performance</li> <li>▶ Possible increase in fuel consumption</li> </ul>

Bosch High-Quality Oil Filter Leakproofness	Low-Quality Oil Filter Leakproofness	⚠ Expensive Consequences
<p>Corrosion-resistant housing prevents oil leakage</p> 	<p>Corrosion caused by spray water</p> 	<ul style="list-style-type: none"> <li>▶ Increased wear up to engine damage</li> <li>▶ Environmental pollution caused by leaking oil</li> </ul>
<p>Robust felt ring prevents oil leakage</p> 	<p>Poorly fitting felt ring</p> 	<ul style="list-style-type: none"> <li>▶ Loss of the internal leakproofness, poor filtration of the oil</li> <li>▶ Increased wear up to engine damage</li> </ul>
<p>High-quality sealing made of a special rubber prevents oil leakage</p> 	<p>Damaged, porous sealing</p> 	<ul style="list-style-type: none"> <li>▶ Increased wear up to engine damage</li> <li>▶ Environmental pollution caused by leaking oil</li> </ul>

Bosch High-Quality Oil Filter Bypass Valve	Low-Quality Oil Filter Bypass Valve	⚠ Expensive Consequences
<p>Accurately set valve-opening pressure ensures reliable lubrication of the engine – even under cold conditions and in case of a clogged filter.</p> 	<p>Poor functioning of the bypass valve</p> 	<ul style="list-style-type: none"> <li>▶ Increased wear up to engine damage</li> <li>▶ Bursting of the oil filter</li> </ul>