

# ASEP Test results

## Replacement exhaust systems

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# Alternative 1

Tests	Advantages / Disadvantages
<p>Annex 3 : Back to back OE / Repl.</p> <ul style="list-style-type: none"><li>• Same vehicle</li><li>• Same day</li></ul>	<p>Principle in use since 1981 without problems</p>
<p>ASEP tests</p> <ul style="list-style-type: none"><li>• Only replacement</li><li>• Same acceptance criteria as for OE</li><li>• Method A or Method B</li></ul>	<ul style="list-style-type: none"><li>• Similar to EU proposal DEC 2011</li><li>• Legally &amp; technically simple</li><li>• Same criteria as for OE ("flat playing ground")</li><li>• Limited extra costs</li></ul>



## Alternative 2

Tests	Advantages / Disadvantages
<p>Annex 3 : Back to back OE / Repl.</p> <ul style="list-style-type: none"><li>• Same vehicle</li><li>• Same day</li></ul>	<p>Principle in use since 1981 without problems</p>
<p>ASEP tests</p> <ul style="list-style-type: none"><li>• Back to back OE / Repl.</li><li>• Same vehicle</li><li>• Same day</li></ul>	<ul style="list-style-type: none"><li>• Complicated system of tolerances</li><li>• Combined measurement uncertainties of OE and Repl. parts</li><li>• Same problem for COP (floating target)</li></ul>



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**THANK YOU**