

Annex A to India comments on Type IV test

Reference No. of Section B.1	India Proposed changes	Remarks
2. and Table B.1.1	<p>Add following at the end of clause 2. and note at the end of table B.1.1 :</p> <p>Type IV test is not applicable for vehicles in limp home mode if the fuel storage in limp home mode is having limited capacity e.g. 2 liters for all two wheel vehicles.</p>	India will prefer this provision.

Reference No. of Section B.3	India Proposed changes	Remarks
New clause to be added	<i>This applies to Class 3-1 and 3-2</i>	
2.3.3.	<p>Class C;</p> <p>The SHED test is described in Annex B.3.3. and sets out the evaporative emission test procedure for a vehicle. This test shall consist of the following subtests and conditions:</p>	These are duplication of details given in Annex B3.3
2.3.3.1,2.3.3.2, 2.3.3.3	May be deleted	
2.4 and its sub clauses	May be deleted	With the formulation of clauses for principal and alternative norms, these become redundant
4.	<p>Amend as</p> <p>Durability: The manufacture shall demonstrate the durability of the emission evaporative control system. Completing the durability testing of the vehicle prior to carrying out the evaporative emissions test shall ensure that the vehicle will meet the evaporative emission standards</p>	<p>Durability test described in Annex B3.4 is applicable only the SHED test.</p> <p>Fuel storage and supply system permeation test, requirements are specified in Annex B3.2</p> <p>No requirements are specified for Fuel storage permeability test</p>

	<p>over the useful life of the vehicle. For that purpose, the following shall be followed</p> <p>For class B: The procedure prescribed in Annex B3.2</p> <p>For class C: The rapid ageing procedure of evaporative emission control components set out in Annex B.3.6 shall be followed.</p>	<p>Annex B.3.6 is for propulsion family definition with regard to test Type IV requirements</p> <p>For class C, procedure for rapid aging of evaporative emission control components need to be incorporated.</p>								
<p>Section B.3: 5</p>	<p>Substitute the following</p> <p>5.0 Performance requirements</p> <p>5.1 Category 3-3</p> <p>5.1.1 Optional performance requirements</p> <p>5.1.2 The principal requirements of performance are set out in paragraph 5.1.3.</p> <p>Contracting Parties may also accept compliance with one or more of the alternative performance requirements set out in paragraph 5.1.4</p> <p>5.1.3 The principal performance</p> <p>Limit for Mass of total hydrocarbons (THC) in SHED test (mg/test) (for Class C): [2000] (mg/test)</p> <p>5.1.4 Alternative performance requirements</p> <p>5.1.4.1 Alternative performance A</p> <p>Limit for the permeation of the fuel storage and supply system (for Class B; the test procedure in Annex B.3.2);</p> <table border="1" data-bbox="583 1003 1157 1138"> <tr> <th colspan="2">Permeation test (mg/m²/day)</th> </tr> <tr> <th>Fuel storage</th> <th>Fuel tubing</th> </tr> <tr> <td>[1500]</td> <td>[15000]</td> </tr> </table> <p>5.2 [For Category 3-1</p> <p>Limit for the permeability of the fuel storage system (for Class B; the test procedure in Annex B.3.1);</p> <table border="1" data-bbox="583 1287 1167 1370"> <tr> <td>Test at 313.2 ± 2 K: [20000] (mg/m²/24 h)</td> </tr> <tr> <td>Test at 296.2 ± 2 K: [10000] (mg/m²/24 h)</td> </tr> </table>	Permeation test (mg/m²/day)		Fuel storage	Fuel tubing	[1500]	[15000]	Test at 313.2 ± 2 K: [20000] (mg/m²/24 h)	Test at 296.2 ± 2 K: [10000] (mg/m²/24 h)	<p>To clearly specify the principal and alternate requirements, in line with the current text of GTR2</p> <p>To include 3-1 category</p>
Permeation test (mg/m²/day)										
Fuel storage	Fuel tubing									
[1500]	[15000]									
Test at 313.2 ± 2 K: [20000] (mg/m²/24 h)										
Test at 296.2 ± 2 K: [10000] (mg/m²/24 h)										

Reference No. of Annex B.3.3	India Proposed changes	Remarks
2.1.1	Add at the end of this statement Or	This is to keep alternative to clause 2.1.2

Reference No. of Annex B.3.4	India Proposed changes	Remarks
3.1	Details to conduct cycles for ageing of the components to be incorporated.	This is essential to complete the text.