

Report from IWG on **Environmental** and **Propulsion Performance** **Requirements for Light vehicles** **(EPPR)**

66th GRPE 6-7th June 2013
Geneva

Chair Petter ÅSMAN

EPPR-Background

- Initiative by European Union to set up IWG regarding Environmental and Propulsion Performance Req for Light vehicles (i.e. Category 3 or L-category type vehicles)
- Initiative was announced in GRPE in January and June 2012 and WP29 in June 2012
- Agreement by WP29 Nov 2012 to establish IWG
- 1st IWG meeting Geneva 18th January 2013
- 2nd IWG meeting Brussels 24-25 April 2013
- Work to be finalised by 2016

ToR and request for mandate

- Terms of Reference in informal doc GRPE-66-11
- Request for mandate in informal doc GRPE-66-12
- ToR and mandate discussed and agreed in EPPR group
- Priority to work under 1998th agreement but will also work under 58th agreement
- Amend GTR No2 and develop new GTRs with respect to Environmental and Propulsion Performance Requirements
- Create synergies with 58th agreement and where possible develop common requirements in form of UN Reg(s)
- Exchange information on current and future regulatory requirements for 'light vehicles'

Main areas of work

- The main activities are proposed to be focussing on revising or establishing the following test types:
 - Type I: Tailpipe emissions test after cold start;
 - Type II: Tailpipe emissions test at (increased) idle / free acceleration;
 - Type III: Emission test of crankcase gases;
 - Type IV: Evaporative emissions test;
 - Type V: Durability testing of pollution control devices;
 - Type VII: Measurement of CO₂ emissions, fuel consumption, electric energy consumption and electric range determination;
 - Type VIII: On-board diagnostics environmental verification tests.
- Unified rules and test procedures to measure power and torque for propulsion technologies fitted on L-category vehicles
- unified measurement of maximum design vehicle speed and/or power for restricted L-category vehicles should be developed and agreed upon.

Ongoing priority discussion

- Priorities from CPs have been identified and discussion will continue in 3rd EPPR meeting
- Areas with highest priority are:
 - Evaporative emissions (Test Type IV)
 - OBD (Test Type VIII)
 - Tailpipe emissions (Test Type I)
- Final decision on prioritisation not taken yet

Ongoing discussion in EPPR IWG

- Structure of GTRs with separate GTRs per subject (similar structure as WHDC, OBD and OCE for HDVs)
- In order to minimise no of GTRs discussion on grouping test types and vehicle categories is ongoing based on a proposal from India
- 'mirror' requirements in UN-regs will be needed. Structure to be discussed

Draft Roadmap

- **November 2012: 158th session of WP.29 – agreement on establishment of informal working group by adoption of the mandate regarding environmental and propulsion performance requirements for L-category vehicles.**
- **January 2013: 1st meeting of the EPPR informal working group. Review and adoption of the Rules of Procedure and Terms of Reference.**
- **June 2013: .GRPE (66th session) meeting of the EPPR informal working group. Presentation of draft final roadmap and related programme management items to GRPE submitted for adoption.**
- **November 2013: 158th session of WP.29, adoption of GRPE decision regarding the final roadmap and related programme management items.**
- **2013-2016: meetings of the working group, regularly reporting to GRPE and the Administrative Committees (AC 1 and AC 3)**
- **January 2016: Present a final report as an informal document to GRPE**
- **2016: possible adoption of UN Regulation(s) and Global Technical Regulation(s)**

Draft roadmap (proposal from chair)

EPPR Draft Roadmap		2013												2014												2015												2016											
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Meetings	GRPE	65 th			66 th			67 th			68 th			69 th			70 th			71 th			72 nd			73 rd																							
	EPPR	1 st	2 nd		3 rd		4 th		5 th		6 th		7 th		8 th		9 th		10 th		11 th		12 th		13 th		14 th		15 th		16 th																		
<i>Test procedures</i>																																																	
Tailpipe emissions (Test Type I)																																																	
Evap emissions (Test Type IV)																																																	
OBD (Test type VIII)																																																	
Durability (Test Type V)																																																	
Energy consumption, Range (Test Type VII)																																																	
Idle (Test type II)																																																	
Test Type III (Crankcase)																																																	
Maximum vehicle Power																																																	
Maximum vehicle Speed																																																	
Vehicle categories																																																	

Next meetings

- 3rd meeting in Geneva on 7 June 2013
- 4th meeting 8-9 October 2013 , Pune, India
- 5th meeting in conjunction with GRPE in Geneva in January 2014 (to be confirmed)