

# Eco-Friendly and Safe Features of Vehicles Checklist

OP-TRS-1.01 F1 (01 October 2013)

FEATURES	COMPLIANCE STATUS	REMARKS
1. Follows the regulation( national and international ) on emissions of <a href="#">nitrogen oxides</a> (NO <sub>x</sub> ), <a href="#">total hydrocarbon</a> (THC), <a href="#">non-methane hydrocarbons</a> (NMHC), <a href="#">carbon monoxide</a> (CO) and <a href="#">particulate matter</a> (PM). Reference <b>EU Emission Standards for HD Diesel Engines, g/kWh (smoke in m<sup>-1</sup>)</b> .		
2. Vehicle is considered as <b>Enhanced environmentally friendly vehicle</b> or <b>EEV</b> .		
3. Complies with the safety features requirements.		
4. Engine that uses new, more efficient fuel, such as Liquefied Petroleum Gas (LPG) or cars that have an electrical engine to handle the slower urban driving such as hybrid cars.		

## References:

### EU Emission Standards for HD Diesel Engines, g/kWh (smoke in m<sup>-1</sup>)

Tier	Date	<a href="#">Test cycle</a>	CO	HC	NO <sub>x</sub>	PM	Smoke
Euro I	1992, < 85 kW	ECE R-49	4.5	1.1	8.0	0.612	
	1992, > 85 kW		4.5	1.1	8.0	0.36	
Euro II	October 1996		4.0	1.1	7.0	0.25	
	October 1998		4.0	1.1	7.0	0.15	
Euro III	<i>October 1999 EEVs only</i>	<i>ESC &amp; ELR</i>	1.0	0.25	2.0	0.02	0.15
	October 2000	ESC & ELR	2.1	0.66	5.0	0.10 0.13*	0.8
Euro IV	October 2005		1.5	0.46	3.5	0.02	0.5
Euro V	October 2008		1.5	0.46	2.0	0.02	0.5
Euro VI	31 December 2013 <sup>[15]</sup>		1.5	0.13	0.4	0.01	

\* for engines of less than 0.75 dm<sup>3</sup> swept volume per cylinder and a rated power speed of more than 3,000 per minute. EEV is "[Enhanced environmentally friendly vehicle](#)".