

GFV meeting

EURO 5-6

Euro 5-6 LDV

- Euro 5 starting from 1 Sept 2009
- Euro 6 starting from 1 Sept 2014

Figure I.2.4

Application of test requirements for type-approval and extensions

Vehicle category	Vehicles with positive ignition engines including hybrids								Vehicles with compression ignition engines including hybrids	
	Mono fuel				Bi fuel ⁽¹⁾			Flex fuel ⁽¹⁾	Flex fuel	Mono fuel
Reference fuel	Petrol (E5)	LPG	NG/ Biomethane	Hydrogen	Petrol (E5) LPG	Petrol (E5) NG/ Biomethane	Petrol (E5) Hydrogen	Petrol (E5) Ethanol (E85)	Diesel (B5) Biodiesel	Diesel (B5)
Gaseous pollutants (Type 1 test)	Yes	Yes	Yes		Yes (both fuels)	Yes (both fuels)		Yes (both fuels)		Yes
Particulates (Type 1 test)	Yes (direct injection)	-	-		Yes (direct injection) (petrol)	Yes (direct injection) (petrol)		Yes (direct injection) (both fuels)		Yes
Idle emissions (Type 2 test)	Yes	Yes	Yes		Yes (both fuels)	Yes (both fuels)		Yes (both fuels)		-
Crankcase emissions (Type 3 test)	Yes	Yes	Yes		Yes (petrol)	Yes (petrol)		Yes (petrol)		-
Evaporative emissions (Type 4 test)	Yes	-	-		Yes (petrol)	Yes (petrol)		Yes (petrol)		-
Durability (Type 5 test)	Yes	Yes	Yes		Yes (petrol)	Yes (petrol)		Yes (petrol)		Yes
Low temperature emissions (Type 6 test)	Yes	-	-		Yes (petrol)	Yes (petrol)		Yes ⁽²⁾ (both fuels)		
In-service conformity	Yes	Yes	Yes		Yes (both fuels)	Yes (both fuels)		Yes (both fuels)		Yes
On-board diagnostics	Yes	Yes	Yes		Yes	Yes		Yes		Yes
CO ₂ emissions and fuel consumption	Yes	Yes	Yes		Yes (both fuels)	Yes (both fuels)		Yes (both fuels)		Yes
Smoke opacity	-	-	-		-	-		-		Yes

(1) When a bi fuel vehicle is combined with a flex fuel vehicle, both test requirements are applicable.

(2) Test on petrol only for vehicles type-approved before the dates set out in Article 10 (6) of Regulation (EC) No 715/2007. The test will be performed with both fuels on or after these dates.