

Initial info on Euro 7 proposal published on 10 November 2022

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Euro 7 proposal for cars and vans

- Entry into force as of 1/7/2025
- Driving conditions
 - Focus on on-road driving

many details are still to be defined in delegated and implementing acts next year.

- Additional: up to 200k km or 10 years

	Normal	Extended*
Ambient temperature	0 to 35 °C	-10 to 0 °C or 35 to 45 °C
Ambient altitude	0 to 700 m	700 to 1800 m
Max speed	<145 km/h	145 to 160 km/h
Towing or aerodynamic modifications	Not allowed	Allowed according to manufacturer specifications and up to the regulated speed
Auxiliaries	Possible as per normal use	-
Max. avg. wheel power during first 2 km after cold-start	<20% of max	>20% of max
Trip composition	Any	-
Min. mileage	10000 km	3000 to 10000 km

* The same emission strategy shall be used when a vehicle is run outside those conditions, unless there is a technical reason approved by the type approval authority

Euro 7 proposal for cars and vans

- Fuel-neutral limits
 - Euro 6 level of petrol for currently regulated pollutants
 - New limit for NH₃
 - Emissions budget for trips < 10 km (= mg/km limit x 10 km)
 - Extended conditions: limit x 1.6
 - Additional lifetime: limit x 1.2 (for gaseous pollutants)
 - Additional requirements for
 - Evaporative emissions
 - Brake and tyre particulate emissions
 - Battery durability

	M ₁ , N ₁ (/km)	N ₁ PMR < 35 kW/t (/km)	M ₁ , N ₁ cold-start budget (/trip)	N ₁ PMR < 35 kW/t cold-start budget (/trip)
NOx in mg	60	75	600	750
PM in mg	4.5		45	
PN in # (>10 nm)	6x10 ¹¹		6x10 ¹²	
CO in mg	500	630	5000	6300
THC in mg	100	130	1000	1300
NMHC in mg	68	90	680	900
NH ₃ in mg	20		200	

Euro 7 proposal for trucks & buses

- Entry into force as of 1/7/2027
- Driving conditions
 - Focus on on-road driving
 - Definition of normal and extended area
 - Some differences with cars and vans
 - Procedures to be further defined by implementing legislation
- Lifetime
 - Main: up to 300k km or 8 years (<16t), 700k km or 15 years (>16t)
 - Additional: up to 375k km (<16t), 875k km (>16t)

	Normal	Extended
Ambient temperature	-7 to 35 °C	-10 to -7 °C or 35 to 45 °C
Ambient altitude	0 to 1600 m	1600 to 1800 m
Towing or aerodynamic modifications	Not allowed	Allowed according to manufacturer specifications and up to the regulated speed
Vehicle payload	>10%	<10%
Auxiliaries	Possible as per normal use	-
ICE loading at cold-start	Any	-
Trip composition	As per usual use	-
Min. mileage	5000 km (<16t) 10000 km (>16t)	3000 to 5000 km (<16t) 3000 to 10000 km (>16t)

* The same emission strategy shall be used when a vehicle is run outside those conditions, unless there is a technical reason approved by the type approval authority

Euro 7 proposal for trucks & buses

- Fuel-neutral limits
 - Emissions budget for trips < 3x WHTC
 - Extended conditions: limit x 2
 - No multiplier for additional lifetime
 - NOx idle limit, in case engine does not shut down after 300 sec of continuous idling operation: 5000 mg/h

	Cold emissions (MAW100) (/kWh)	Hot emissions (MAW90) (/kWh)	Emissions budget for trips less than 3xWHTC (/kWh)
NOx (mg)	350	90	150
PM (mg)	12	8	10
PN (10 nm, #)	5x10 ¹¹	2x10 ¹¹	3x10 ¹¹
CO (mg)	3500	200	2700
NMOG (mg)	200	50	75
NH ₃ (mg)	65	65	70
CH ₄ (mg)	500	350	500
N ₂ O (mg)	160	100	140

MAW: Moving Averaging Window, 90th or 100th percentile

THANK YOU !



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