



Type approval process

Regional process: European Union











Conformity production





In service conformity





Type approval process

→ Granting TAA and OEM

In service verification

→ Roadside test / PTI

Market surveillance

→ Independent of the TA process



In service compliance



Market



E Collot 22/05/2019 Type approval process **UTAC CERAM**











Conformity production





In service conformity (



Type approval

- Who ? TAA/TS
- How? Selection of a vehicle/component representative of the type and test
- What? Test and check the compliance with limits/thresholds
- Uncertainty and tolerance?
 - Ex.: 2018/858 refer to ISO 17025 for TS (uncertainties are included)
 - Ex.: R51, average several tests (L/R) ≤ limits
 - Ex.: 2017/1151:
 - results ≤ 99% declaration for CO2
 - Till 2 tests if measurement is close to the limits (90%) for pollutants
 - Analyser margin included in the not to exceed values = (1+margin) * limits for RDE
- Consequence of non compliance: no approval











Conformity of production





In service conformity



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- ▼ Who ? OEM with TAA/TS approval and TAA/TS
- How? Sampling / statistical approach
- What? Test and check the compliance with limits/thresholds
- Uncertainty and tolerance?
 - Ex.: R51, average several test (L/R) ≤ limits + 1dB
 - Ex.: 2017/1151: results * 0,98 ≤ limits
- Consequence of non compliance: remedial measure/recall/withdrawal











Conformity of production





In service conformity



- In service conformity: emission ONLY
 - ▼ Who ? TAA/TS/accredited labs
 - How? Sampling / statistical approach
 - What? Test and check the compliance with limits/thresholds of vehicles/components in use (years/mileage)
 - Uncertainty and tolerance?
 - Ex.: 2017/1151:
 - Chassis dyno: results ≤ limits + statistical
 - Analyser margin included in the not to exceed values = (1+margin) * limits for RDE
 - R83: results ≤ limits + statistical
 - Consequence of non compliance: withdrawal/recall











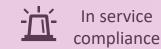
Conformity of production





In service conformity





In service compliance

- ▼ Who ? Police and/or PTI
- How? Roadside or during PTI
- What? Check maintenance and manipulation of vehicles/components in use
- Uncertainty and tolerance?
 - Ex. R83: idle CO emission level for PTI
 - Ex. R51: stationary sound emissions compared to approved one (+5dB)
- Consequence of non compliance: fee/traffic removal for the concerned individual vehicle











Conformity production





In service conformity ()





In service compliance



Market



Market surveillance

- ▼ Who ? Market surveillance authority (≠TAA)
- How? sampling
- What? Check the conformity of vehicles/components put in the market (new)
- Uncertainty and tolerance?
 - WVTA: 2018/858 (M, N,O), 168/2013 (L), 167/2013
 - Refer to
- Consequence of non compliance: remedial measures/withdrawal/recall/market removal