Summary

00_ Introduction

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Introduction

On February 2016, GRRF, it was proposed the convenience of opening the discussion about the last modifications of ECE R90 in particular, questions of interpretation in the field of DISCS and DRUMS homologation.

An informal meeting was called to evaluate discrepancies, uncertainties and ambiguities in the Regulation with the aim to report GRRF the eventual necessity to re-open the AdHoc UNECE/GRRF Working Group on Brake components.
01 Attendance

15 Delegates from Technical Services, Industry and associations were present:
- UTAC (host)
- IDIADA (secretary)
- TÜV NORD
- TÜV SÜD
- TRW
- EURAC Poole
- Continental
- SMMT
02_ Items of Discussion

Consideration was given to the following aspects:
Regarding the current ECE Regulation No 90.02

- Brake disc type definition (in particular, the effect of ventilation design)
- Concept of equivalent disc
- Consideration of other materials (Carbon fiber…)
- Inertia values and mass (front / rear) distribution
- (OICA help will be requested)
- Testing details
Consideration was given to the following aspects:
Regarding the current ECE Regulation No 90.01

Also discrepancies and ambiguities in the homologation of brake PADS or SHOES were brought to the meeting.
02_ Items of Discussion

New items to be considered

- Members highlighted the poor quality and the bad quality consistency of many IAM callipers, in particular CV_CALLIPERS

- Proposal was made to include AM callipers in the scope of Regulation No 90
02_ Items of Discussion

New items to be considered → Harmonized COP

- Industry asks for higher harmonization in the COP audits and periodic verifications

- Proposal for a common COP check list included in the Regulation to guarantee that requirements demanded to applicants are equivalent
02_ Items of Discussion

SIDE DISCUSSION

- **Remanufactured Products**:
  - Members report the amount of remanufactured brake parts flooding the replacement market.
  - Proposal to consider remanufactured components within a (separate) ECE Regulation.
03_ Next steps

The group agreed to continue conversations before officially reporting GRRF.

A second meeting has been called next 19\textsuperscript{th} of October in IDIADA – Spain.

The group is an open forum where any interested party can explain problems and ask for solutions to the application of existing R90 and propose future improvements.
Thank you very much for your kind attention

Questions?
Ideas?
Proposals?

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