

JASiC response to TA-27-2

17th December, 2024

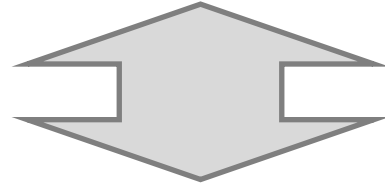


JAPAN AUTOMOBILE STANDARDS INTERNATIONALIZATION CENTER

- JASIC appreciates TWMS for reviewing indoor drum test method and making a proposal.
- We deeply reviewed TWMS proposal and prepared feedback.

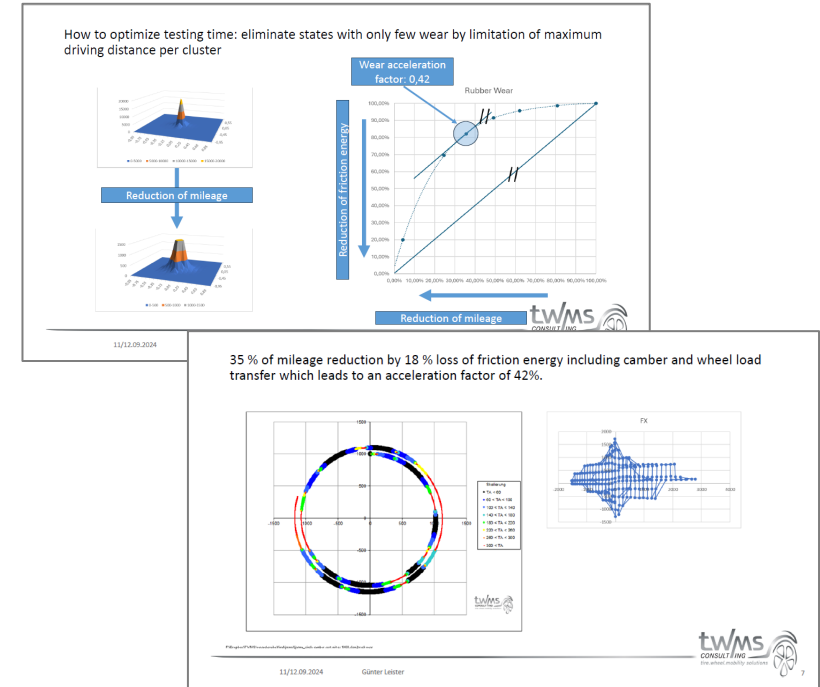
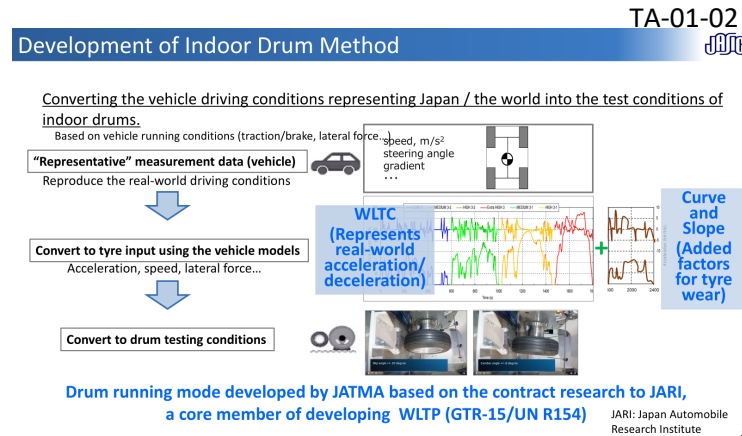
Proposal from TWMS is as follows.

- To change force input as longitudinal force faster and lateral force slower.
- To use simple vehicle model and add wheel load transfer and camber angle.
- To omit low longitudinal/lateral acceleration to improve the efficiency of the input conditions for the tyres.



Feedback:

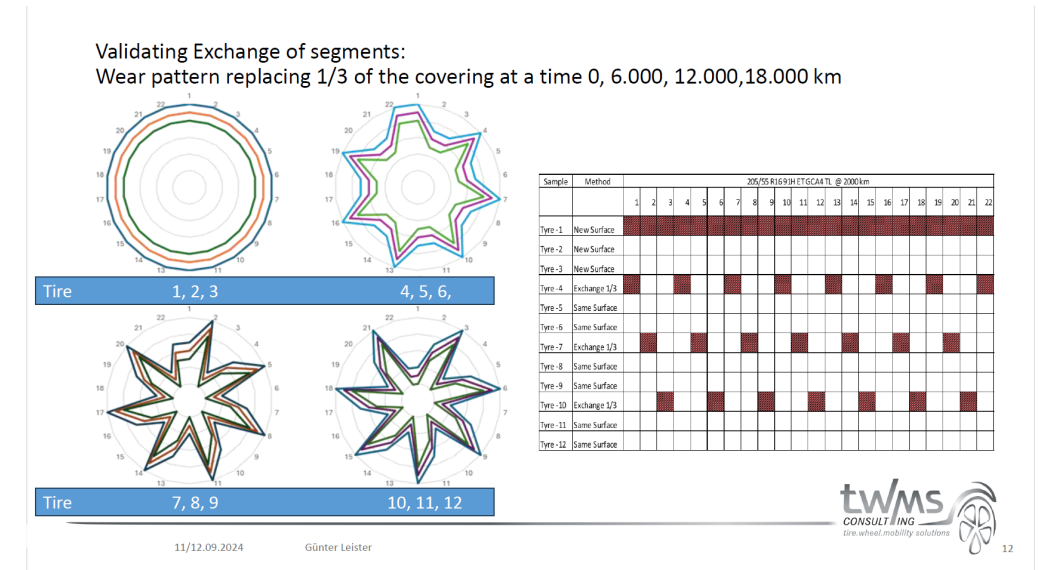
- ✓ We should not forget that the concept of indoor drum method is to replicate driving in the real-world condition.



The proposal on input condition does not take real-world conditions into consideration, therefore there are technical concerns.

Proposal from TWMS is as follows.

- TWMS argues that by continuing to partially replace segments of the drum, it is possible to maintain averaged drum surface condition.
- As a result, it is proposed to evaluate multiple candidate tyres with a single reference tyre.



Feedback:

- ✓ Theoretically, the concept of reducing the number of evaluations for reference tyres is an interesting idea.
- ✓ It is necessary to conduct additional validation tests with the appropriate tyre specs and repetitions to evaluate whether it stabilizes abrasion rate and abrasion index even without a reference tyre.
- ✓ Considering the possibility of issues arising with the road surface in a particular segment, which might require replacing that segment outside of standard procedure, it may be difficult to define this methodology as the sole method.
- ✓ JASIC is unable to conduct this validation test because it is full capacity with market assessment tests, correlation tests, and preliminary assessment tests for C2 tyres.

JASIC suggest that additional validation tests are necessary.