

Odometer Accuracy

OICA Position

Confidential C



∑ +5.9%/-3.9%



Recommendation

The recommended total odometer tolerance does assume a certification test procedure where the tyre parameters are well controlled, including:

- Inflation to recommended tyre pressure for given vehicle loading condition
- Controlled tyre temperature
- Known tyre wearing status, resp. use of new tyre
- Controlled vehicle test-speed range

This results in a total tyre diameter tolerance range of +5.9% / -3.9%. In real world there would be a shift of appr. -1% towards smaller diameters due to tyre wear ($\rightarrow +4.9\% / -4.9\%$).

Consequently, OICA would recommend a tolerance of ±5% for M1, N1 for certification.

A statistical combination of the individual tolerances (sqrt of sums of tolerances squared) is not recommended, as individual variations may not be statistically distributed around their nominal or center values, but may have systematic deviations.