I. Proposal to amend UN Regulation No. 117

This proposal aims to clarify requirements for large LT tyres with a load index greater than 121 that do not differ in construction or pressure from C2 tyres.

The modifications are marked in **bold** for new or strikethrough for deleted characters.

a) Proposal to amend 02 and 03 series of amendments to UN Regulation No. 117

"6.3. Rolling resistance coefficient limits, as measured by the method described in Annex 6 to this Regulation.

The maximum values for stage 2 for the rolling resistance coefficient shall not exceed the following (value in N/kN is equivalent to value in kg/tonne):

Tyre class	Max value (N/kN) ¹⁾
C1	10.5
C2	9.0
C3	6.5 <mark>2)</mark>

¹⁾For "snow tyre for use in severe snow conditions", the limits shall be increased by 1 N/kN.

²⁾ The maximum values for LT-marked tyres as defined by UN Regulation No. 54 shall not exceed 9.0 N/kN.

b) Proposal to amend 04 series of amendments to UN Regulation No. 117

"6.3. Rolling resistance coefficient (C_r) limits, as measured by the method described in Annex 6 to this Regulation.

The maximum value of the rolling resistance coefficient shall not exceed the values given below (value in N/kN is equivalent to value in kg/tonne):

Stage 2				
Tyre class	Max value of C _r (N/kN) ¹⁾			
Cl	10.5			
C2	9.0			
C3	6.5 <mark>2)</mark>			

¹⁾For snow tyre that is classified as tyre for use in severe snow conditions, the limits shall be increased by 1 N/kN.

²⁾ The maximum values for LT-marked tyres as defined by UN Regulation No. 54 shall not exceed 9.0 N/kN.

Stage 3				
Tyre	class			Max value of C _r (N/kN) ¹⁾
C1	load capacity index < 87			10.0
		Tyres other		9.0
	capacity index ≥ 87	than Run Flat Tyres or Extended Mobility Tyres	Tyres with a nominal aspect ratio ≤ 40 and suitable for speeds ≥ 300 km/h	10.0
		Run Flat Tyre Mobility Tyre		10.0
	Special use tyres		10.0	
C2	Tyres other than Traction tyres		8.5	
	Traction tyres		9.0	
C3	Tyres other than tyres marked with "C", "CP" or "LT"		6.0	
	Tyres marked with "C" or "CP" as suffix to the tyre-size designation or with "LT" either as prefix or suffix to the tyre-size designation or with "LT" placed after the service description		6.5 <mark>²)</mark>	

¹⁾For snow tyre that is classified as tyre for use in severe snow conditions, the limits shall be increased by 1 N/kN.

²⁾ The maximum values for LT-marked tyres as defined by UN Regulation No. 54 shall not exceed 8.5 N/kN.

II. Justification

- 1. LT-marked tyres are split between Tyre Classes C2 and C3; however, these tyres used in motor vehicles generally share consistent construction types and are tested for rolling resistance coefficient at lower pressures than C3 tyres.
- 2. For reasons of safety and durability, certain heavy-duty pickup trucks require LT tyres with performance characteristics suited to their use in rough terrains and for industrial/agricultural purposes which result in rolling resistance values higher than specified for C3 tyres in general.
- 3. LT tyres for use on motor vehicles in the market with load index > 121 have no physical mechanism (construction difference or pressure) which would drive a different rolling resistance performance requirement between C2 and C3 classes.
- 4. Therefore, for purposes of clarification and consistency, it is proposed to hold large LT tyres with load index >121 which are grouped in C3 to the C2 rolling resistance requirement.
- 5. No other changes are proposed on any other performance requirements prescribed in this regulation.