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**Nº1** 

# **Global Technical Regulation**

# 55<sup>TH</sup> GRRF 3 – 6 Feb. 2005 ETRTO proposal

# **Global Technical Regulation**

- Background
- Some Ideas to Kick-off the GTR-Tyre.

### BACKGROUND

### **1958** Agreements - Geneva - (UN- ECE)

- Adopt uniform technical prescriptions for wheeled vehicles, equipment, and conditions for reciprocal recognition of approval granted on the basis of these prescriptions
- 1998 : Global agreement -Geneva- (UN- ECE)
  - Establish Global Technical Regulation for wheeled vehicles, equipment and parts which can be fitted or used on wheeled vehicles

# **1998 - Global agreement GTR 's (Global Technical Regulation )**:

- Lighting and light-signalling devices
- Tyres → Fre
  - → Frozen
- Frontal impact
- Braking
- Vehicle classification, Weights and Dimensions
- Test cycles for gaseous emissions
- Etc....

### Septembre 2002 GTR - Tyres was frozen

### **Reasons :**

• USA TREAD Act

**Current FMVSS has to be reviewed** 

**Consequences for not having a GTR???** 

## **Proliferation of Test requirements**

	6 different methods for the same tyre design							
Physical dimensions	<b>M1</b>	<b>M1</b>	M2	<b>M3</b>	<b>M4</b>	M5	<b>M6</b>	
5 different « safety » tests	22 different test methods for a worldwide approval for the same tyre design							
Bead Unseating			<b>U1</b>	<b>U2</b>	<b>U3</b>	<b>U4</b>	<b>U5</b>	5
Low pressure Perf.			L1					1
<b>Breaking Energy</b>			<b>Z1</b>	<b>Z2</b>	<b>Z3</b>	<b>Z4</b>	<b>Z5</b>	5
Endurance			<b>Y1</b>	<b>Y2</b>	<b>Y3</b>	<b>Y4</b>	<b>Y5</b>	5
High Speed test	<b>X1</b>	<b>X1</b>	<b>X2</b>	<b>X3</b>	<b>X4</b>	<b>X5</b>	<b>X6</b>	6
Tests (Pass. Car tyres)	ECE (1958)	UE D.92/23	DOT 109 139	ADR	SASO	CCC	NIS	Total

## Some Ideas to reactivate GTR-Tyres.

• <u>1- Use only the framework of 1958 agreements</u>

#### Advantages :

- The frame exists
- It is attractive to incite other countries to participate in ECE WP 29 in Geneva
- Initiate a harmonisation process based on a set of standardised tests (menu)
- Protect national sovereignty (choice of optional requirements in the « menu »)

#### **Disadvantages :**

- Excludes self certification procedure (3<sup>rd</sup> party principle cannot be revised)
- Long term actions
- USA, Canada, are excluded (non contracting parties of the 58 agreement)

## Some Ideas to reactivate GTR-Tyres.

#### 2- Restart in the framework of 1998 agreement

#### The basis will be a Menu including:

- a main frame (mandatory) current Reg 30 & 54 ....
- **Optional requirements**

#### Advantages :

- Can adopt an existing frame
- Will be open for additional regulatory tests
- USA, Canada, ... will not be excluded (contracting parties of the 98 agreement)
- Optimizes the number of tests procedures used in developing global technical regulations thus reducing time & costs.
- self certification & 3<sup>rd</sup> party principle can co-exist
  Once harmonized or developed, global technical regulations will be established in a Global Registry, which will serve as a repository of global technical regulations that could be adopted by countries from around the world.

#### **Disadvantages : Associated difficulties**

### How to reduce test proliferation?

#### The concept:

- Reduce the proliferation of tests methods by setting a unique tests menu in the frame of WP29.
- Legal authorities will select tests within the menu.
- All countries can add regulatory prescriptions to cope with specific geographical zones condition.
- World-Wide Agreement to use only the tests part of the tests menu approved in the WP29 agreement.
- Menu & tests evolutions will stay in the frame of WP29.

### **GTR - TYRES**

### A non exhaustive list for standardised tests

		* : means version adopted by WP29		
Mandatory frame <i>Options</i>		MENU OPTIONS		
MANDATORY	Physical Dimensions	<b>M</b> *		
FRAME	High Speed Endurance⇔ SS	<b>X</b> *		
	Endurance	е		
	Breaking energy	b		
<b>OPTIONAL</b>	Bead Unseating	u		
FRAME	Wet Grip	<b>w</b> *		
	Rolling Sound	<i>s</i> *		
	Rolling Resistance	r*		

## **PROPOSAL** for GTR

### A list of standardised tests decided by regulatory authorities in the frame of WP29

Gen	eral frame	EU	CHINA	USA	X		
COMMON	Tyre Geometry	Yes	Yes	Yes	Yes	Mandatory requirements	
FRAME	High Speed Tyre endurance ⇔ SS	Yes	Yes			(interchangeability & integrity )	
	Endurance		е	е		Specific	
OPTIONAL FRAME	Breaking energy		Ь	b		requirements	
	Wet Grip	W					
	<b>Rolling Sound</b>	S				Environmental	
	Rolling Resistance	r				requirements	

### **ETRTO Proposal**

## A GTR program for tyres than can probably lead to a reduction of the test methods from 22 to a minimum of 6 to 8.

We are interested to develop this concept for GTR for tyres.



