

Tire meeting with Goodyear

Dienstag, 16. Oktober 2018
07:39

Present:	IVECO:	FISCHER Markus, KRUIS Sebastian, SCHREIER Philip, BOSCH Michael, HIRNINGER Patrick
	Goodyear:	LERUSSE Albert, BEFFA Diego

For example 3 different type of tires:

FuelMaxPerformance	The top class Fuel Efficient long haul tire Best-in-class Rolling resistance Highest fuel savings
K-Max S/D Gen-2	Regional Haul tire top-class mileage true all season capability
FuelMax S/D Gen-2	Long-Haul tire Provides optimal fuel efficiency Balanced Long Haul tire

Influences on road handling:

- Compound
 - Age of tires
- Pattern
 - Ribs/Grooves
 - Gaps
 - Tread pattern depth
- Tire choice
 - Vehicle properties
 - Tire size
 - Axle load

Compound:

Plays a crucial role in

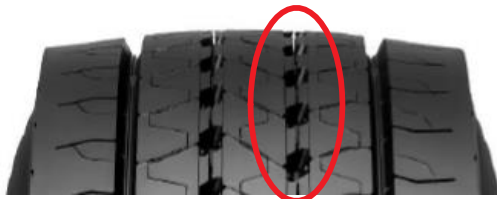
- Fuel savings
- Mileage
- Grip

Fuel saving equals to mileage but is contrary to grip

Pattern:

Longitudinal Ribs/Grooves:

- For water evacuation
- Precise handling (narrow small gaps for intended blockage)



- Adapt tires to different road conditions

Lateral Ribs/Grooves:

- 3PMSF (3-peak-mountain-snow-flake symbol) capability
- feeling of a linear steering force

$\rightarrow \mu(s)_{lat} \not\sim \mu(s)_{long}$ due to gaps

For example:



STEER



1. KMAX Steer 4 or 5-rib robust design
2. High Net-to-Gross ratio & inter-rib stiffeners for a reduced tread slip and better mileage
3. Dual shoulder groove radius for improved groove cracking robustness



DRIVE



1. KMAX Drive directional pattern
2. Opened V-shape to increase lateral stiffness and improve ride & handling balance
3. Longitudinal stiffeners to reduce tread slip and ensure mileage
4. Double tie-bar height to reinforce the shoulder rib tear resistance in regional services
5. Dual shoulder groove radius for improved groove cracking robustness
6. Dual hump centerline for maximized handling performance



Properties for a good deceleration:

- Large supporting surface
- Smooth tire
- Small tread pattern depth (tire buffing) *this is not a realistic scenario but reproducible*