

# DEKRA TYRES TEST 2009 – EVENT 2009



## INTRODUCTION

Each year, a campaign of multisegment Tyres Tests

In 2009, a campaign comparing :

195/65R15 Summer Tyres

225/55R16 Summer Tyres

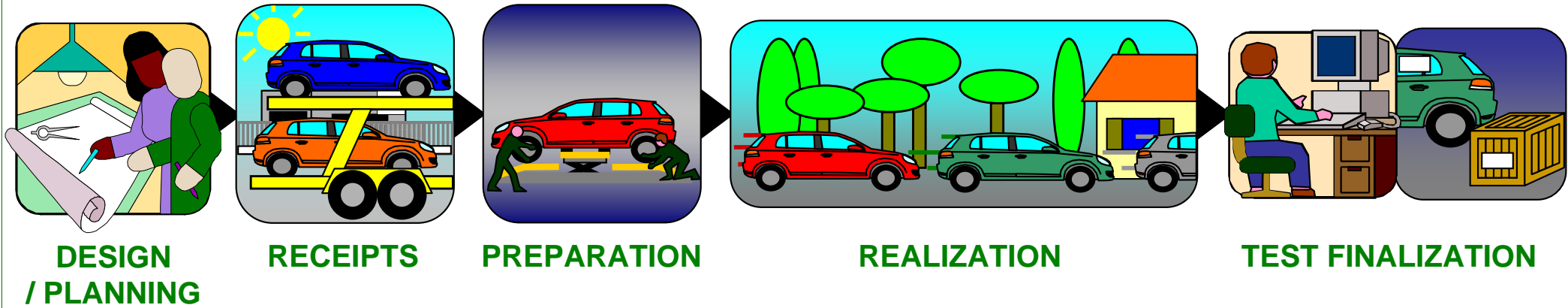
205/55R16 Winter Tyres



**Longevity and fuel economy performances evaluation**



# TEST PROCESS

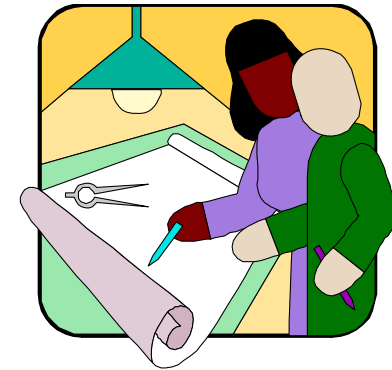


## DESIGN

- 1 TYPE OF SEGMENT MARKET
- 1 NUMBER OF COMPETITORS
- 1 PERIOD
- 1 USAGE OF THE TYRE



- 1 TYPE OF VEHICLE
- 1 TYPE OF CIRCUIT
- 1 METHOD  
(convoys number, cycles and shifts per cycle, rotations, type of measurements)
- 1 SCHEDULE

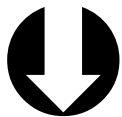


**DESIGN  
/ PLANNING**

## DESIGN : EXAMPLE

1 TYPE OF SEGMENT MARKET  
1 NUMBER OF COMPETITORS  
1 USAGE OF THE TYRE

EUROPEAN 195/65R15 Summer Tyres  
6 + 1 control  
AVERAGE



1 TYPE OF VEHICLE  
1 TYPE OF CIRCUIT  
1 METHOD  
  
1 SCHEDULE

VW GOLF V

52D

2 convoys of 4 vehicles, rotations,  
Measurements, on **10 000 km**

January-April 2009



## PLANNING

### SUPPLYING OF THE TYRES :

- Purchase on the European Market
- Purchase in one time => same series number

### SUPPLYING OF THE VEHICLES :

8 VW GOLF V 1.9 TDi 77 kW (105 hp)

8 AUDI A4 Avant 2.0 TDi 105 KW (143 hp)

### OTHER SUPPLYING :

Vehicles equipments  
Internal ressources  
Tests documentation

### SCHEDULE



## PLANNING : MM PERF segment competitors list

SEGMENT	SIZE	COMPETITORS
MM PERF	195/65R15 91H	<u>MICHELIN</u> ENERGY SAVER <u>BRIDGESTONE</u> B250 <u>CONTINENTAL</u> CONTI PREMIUM CONTACT 2 <u>DUNLOP</u> SP SPORT FAST RESPONSE <u>GOODYEAR</u> EXCELLENCE <u>PIRELLI</u> P6 CINTURATO

## PLANNING : HP segment competitors list

SEGMENT	SIZE	COMPETITORS
HP	225/55R16 95W	<u>MICHELIN</u> PRIMACY HP <u>BRIDGESTONE</u> TURANZA ER300 <u>CONTINENTAL</u> CONTI PREMIUM CONTACT 2 <u>DUNLOP</u> SP SPORT FAST RESPONSE <u>GOODYEAR</u> EXCELLENCE <u>PIRELLI</u> P7

## PLANNING : MM WINTER segment competitors list

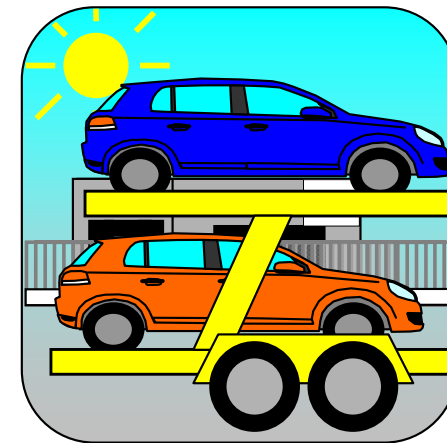
SEGMENT	SIZE	COMPETITORS
MM WINTER	205/55R16 91H	<u>MICHELIN</u> PRIMACY ALPIN PA3 <u>BRIDGESTONE</u> LM25 <u>CONTINENTAL</u> CONTI WINTER CONTACT TS830 <u>DUNLOP</u> SP WINTER SPORT 3D <u>GOODYEAR</u> ULTRA GRIP 7+

# RECEIPTS

RECEIPT OF THE TYRES

RECEIPT OF THE VEHICLES

RECEIPT OF OTHER EQUIPMENTS



RECEIPTS

## RECEIPTS : specificities

### TYRES :

Check of characteristics and identification,  
Check of manufacturing date (DOT).

### VEHICLES :

Check of characteristics,  
Check of condition,  
Check and adjustment of alignment  
in car manufacturer condition for 1  
vehicle (reference).



### OTHER EQUIPMENTS :

(OEM spare parts, fuel...).

# PREPARATION

## TYRES :

Photography for traceability,  
Marking and weighing,  
Mounting on rims and wheels balancing,  
Footprint + definition of measuring points,  
Initial tread depth measurements.



PREPARATION



## PREPARATION : specificities

### VEHICLES :

- Maintenance if necessary,
- Refueling,
- Loading,
- Alignment and setting,
- Instrumentation.



### OTHER :

- Schedule of driving and measurements.
- Documentation adapted to the multi convoys test
- Documentation adapted to the fuel consumption test.

## REALIZATION OF THE TESTS

### DRIVING SHIFT :

Checks

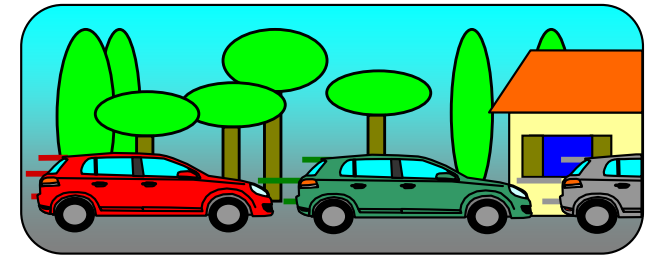
CONVOY DRIVING on the circuit

ROTATION OF THE DRIVERS

Records (handwritten + recorder) and data transfer

Refueling

ROTATION OF THE TYRES



REALIZATION

### MEASUREMENT SHIFT :

Tyres measurements

Intermediary data processing



## REALIZATION : specificities

### DRIVING SHIFT :

Special instructions for the vehicle use

### TYRES ROTATION AND REFUELING SHIFT :

By the same trained Operator in our facilities

### MEASUREMENT SHIFT :

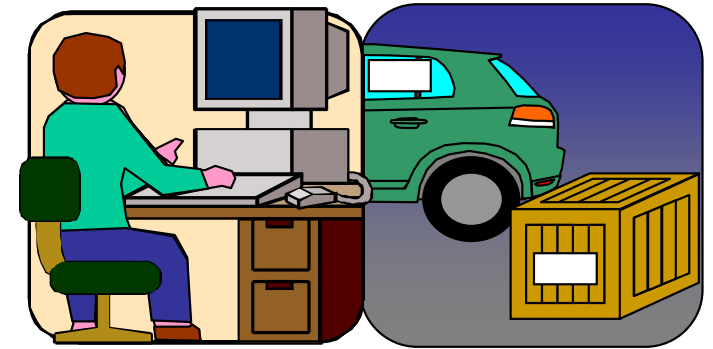
Check of the correlation between the control tyres wears



## FINALIZATION OF THE TESTS

### TYRES :

Photography,  
Dismounting,  
Preparation for storage,  
then shipping or destruction.



### TEST FINALIZATION

### VEHICLES :

Alignment measurement,  
Preparation for their return then return to the supplier.

### RESULTS :

Last datas processings,  
Delivery of a Final Report.

## FINALIZATION : specificities

### RESULTS :

Calculation of average results per axle, and per set,

Calculation of results proportionnated to the control tyres of each convoy,

Ranking.



**Thank you for your interest !**

