

## Pirelli – Benchmark tests on All seasons tires – Snow Tests

Créateur de confiance



En toute

# CONFIANCE

## Pirelli – Benchmark tests on All seasons tires

# Tests on All-season tires

## Snow Tests

## Handling

# Pirelli – VW Golf - 205 / 55 R16 All seasons – 20CPCEXT-181-B - Snow Tests Content

- Timing
- Staff
- Equipment
- Tire list
- Test protocol
- Test conditions
- Results : Lap Time and specialized Driver comments

# Pirelli – VW Golf - 205 / 55 R16 – 20CPCEXT-181-B - Snow Tests Timing

- Date of the test : Wednesday 6th January 2021
- Track : Pirelli Sottozero Center – Arctic Falls - Visträsk – Sweden.
- Type of test : Comparative handling test on snow

# Pirelli – VW Golf - 205 / 55 R16 – 20CPCEXT-181-B - Snow Tests Staff

- 1 Specialized Driver performing handling test.
- 2 tire fitters to mount the tires and to perform tires change during the test.

## Pirelli – VW Golf - 205 / 55 R16 – 20CPCEXT-181-B - Snow Tests Equipment

- Air and track temperature sensor.
- 1 Racelogic Vbox 10 Hz to measure lap time.
- Wind speed follow up.
- 1 lift.
- 1 vehicle VW Golf 5 doors with Engine 1.5L TSI 150 HP with Manual Gearbox.
- Vehicle's load : 1 driver
- Breaking in of all tires for 100 km at 80 kph with 1 driver + 1 passenger RF + 2 passengers and 40 Kg rear.
- During the test, the driver does not know which tires are mounted on the vehicle.

## Pirelli – VW Golf - 205 / 55 R16 – 20CPCEXT-181-B - Snow Tests Tire List

PIRELLI	Cinturato All Season SF2	205/55 R16 94V	DOT 1XHB K104L 4820
BRIDGESTONE	Weather Control A005 Evo	205/55 R16 94V	DOT VR8K V4J 4520
GOODYEAR	Vector 4 Seasons Gen 3	205/55 R16 94V	DOT A50F YF1R 4220
MICHELIN	CrossClimate +	205/55 R16 94V	DOT HCWC 0JYX 2720

- Tires have been provided by PIRELLI.
- Morning
  - Test Sequence morning #1 : Control (Pirelli) / Goodyear / Bridgestone / Control (Pirelli)
  - Test Sequence morning #2 : Control (Pirelli) / Michelin / Goodyear / Control (Pirelli)
  - Test Sequence morning #3 : Control (Pirelli) / Bridgestone / Michelin / Control (Pirelli)
- Afternoon
  - Test Sequence morning #1 : Control (Pirelli) / Goodyear / Bridgestone / Control (Pirelli)
  - Test Sequence morning #2 : Control (Pirelli) / Goodyear / Michelin / Control (Pirelli)
  - Test Sequence morning #3 : Control (Pirelli) / Bridgestone / Michelin / Control (Pirelli)

# Pirelli – VW Golf - 205 / 55 R16 – 20CPCEXT-181-B - Snow Tests

## Test protocol – Handling on snow

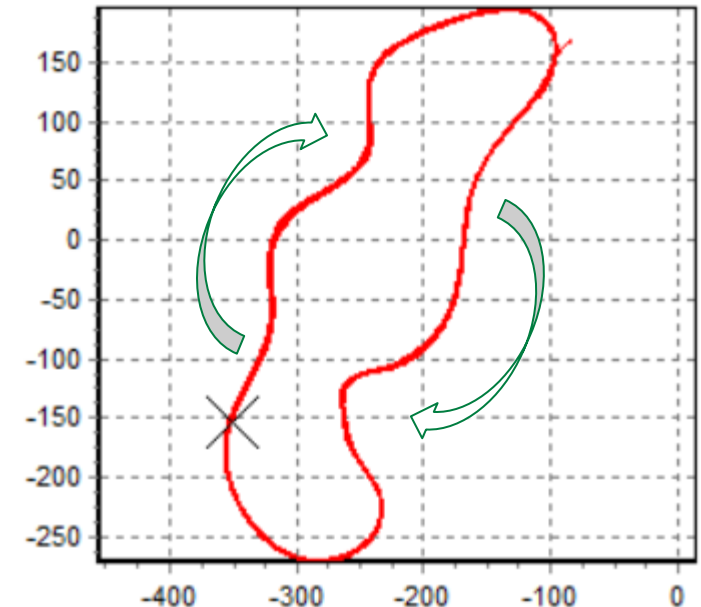
- Type of test : Handling test.
  - Lap time,
  - Subjective comments for each set of tires.
- Surface : snow track prepared with packed fresh snow.
- Vehicle's load : 1 driver.
- ESP is disconnected
- Tire Pressure :
  - Front : 2,4 bar.
  - Rear : 2,4 bar.
- Morning
  - Test Sequence : Control (Pirelli) / Goodyear / Bridgestone / Michelin / Control (Pirelli)
- Afternoon
  - Test Sequence : Control (Pirelli) / Michelin / Bridgestone / Goodyear / Control (Pirelli)



# Pirelli – VW Golf - 205 / 55 R16 – 20CPCEXT-181-B - Snow Tests

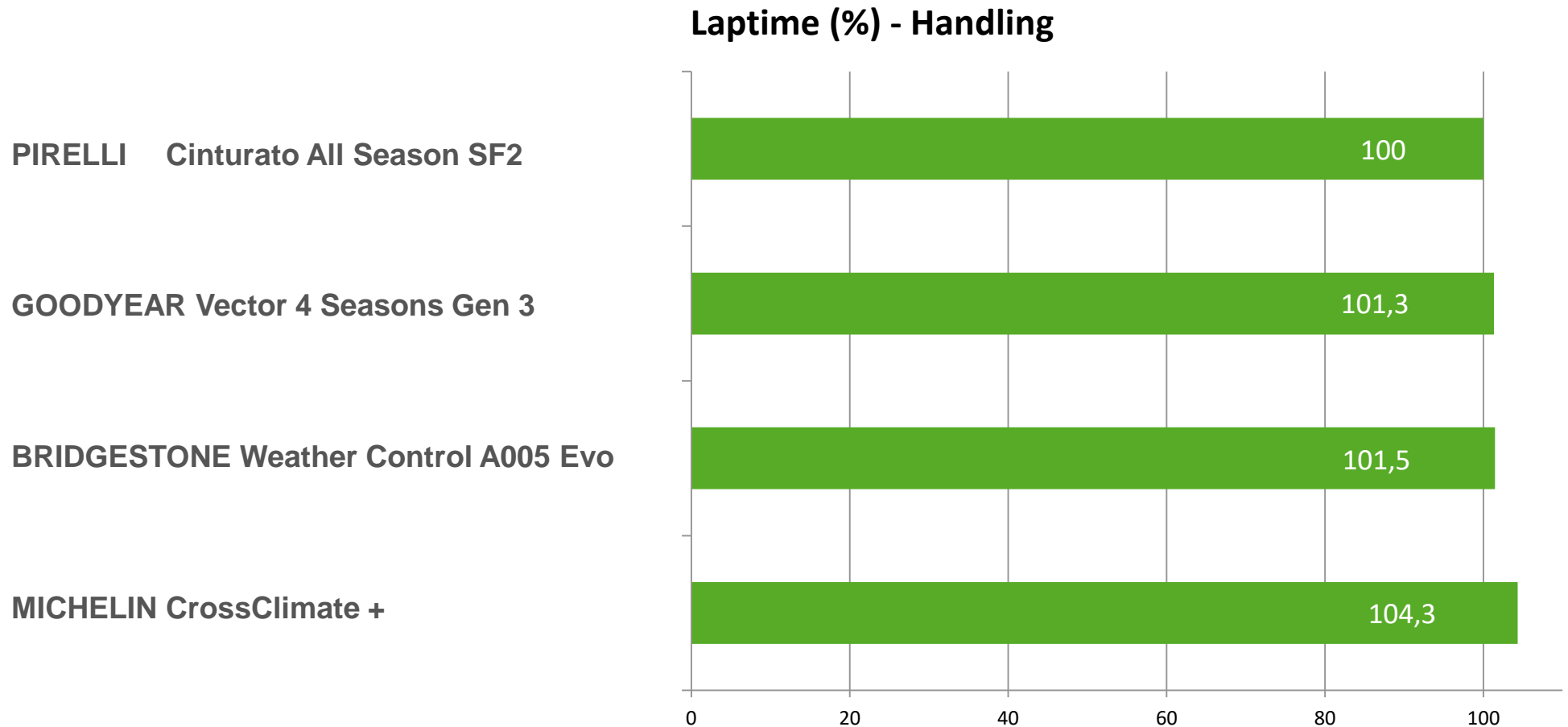
## Test conditions - Handling on snow

- Number of sequences :
  - Morning : 13 laps performed, 6 are validated for the test.
  - Afternoon : 10 laps performed, 6 are validated for the test .
- Temperatures :
  - Air : between -23,1 and -18,3 °C,
  - Track : between -13,5 and -11,0 °C,
- Wind speed :
  - 100 % of time with wind speed less than 1 m/s.
- Tires set validation : standard deviation less than 0,6 %.



# Pirelli – VW Golf - 205 / 55 R16 – 20CPCEXT-181-B - Snow Tests

## Result - Handling on snow



Min / max laptime's difference between the best and worst : 3,4 seconds

# Pirelli – VW Golf - 205 / 55 R16 – 20CPCEXT-181-B - Snow Tests

## Subjective Driver comments

Subjective Driver comments done by D. Depons.

### PIRELLI Cinturato All Season SF2

Very easy to drive.

No understeering + good traction

Very progressive, no major weakness.

### BRIDGESTONE Weather Control A005 Evo

This tire does not give confidence.

Very brutal when oversteering and when the grip is coming back again.

It is compulsory to drive safely with this tire.

### GOODYEAR Vector 4 Seasons Gen 3

No directional power which is a weakness in the curve, resulting important oversteering

Very good grip during acceleration in rapid part, but due to the lack of directional power, the tire is penalized.

### MICHELIN CrossClimate +

Understeering tire in narrow curves and wide ones.

No possibility to compensate because no directional power.

Braking is safe