



## 2013 BRAZILIAN GRAND PRIX

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<b>From</b>	The FIA Formula 1 Technical Delegate	<b>Document</b>	57
<b>To</b>	All Teams, All Officials	<b>Date</b>	24 November 2013
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### Technical Report

#### Before the race:

A front wing deflection test was carried out on car numbers 14, 18, 20 and 22.

A fuel sample was taken from car numbers 04, 15 and 23 and analysed during the race.

On the grid it was checked that all cars had fitted their tyres when the "3 Minutes" signal was given.

#### After the race:

The following cars were weighed:

<i>Number</i>	<i>Car</i>	<i>Driver</i>
01	Red Bull Racing Renault	Sebastian Vettel
02	Red Bull Racing Renault	Mark Webber
03	Ferrari	Fernando Alonso
04	Ferrari	Felipe Massa
05	McLaren Mercedes	Jenson Button
06	McLaren Mercedes	Sergio Perez Mendoza
07	Lotus Renault	Kimi Räikkönen
09	Mercedes	Nico Rosberg
10	Mercedes	Lewis Hamilton
11	Sauber Ferrari	Nico Hülkenberg
12	Sauber Ferrari	Esteban Gutierrez
14	Force India Mercedes	Paul Di Resta
15	Force India Mercedes	Adrian Sutil
16	Williams Renault	Pastor Maldonado
18	Toro Rosso Ferrari	Jean-Eric Vergne
19	Toro Rosso Ferrari	Daniel Ricciardo
21	Caterham Renault	Giedo van der Garde
22	Marussia Cosworth	Jules Bianchi
23	Marussia Cosworth	Max Chilton

The steering wheel of all classified cars has been checked.

Car numbers 05 and 06 were checked for the following:

- 1) Bodywork around the front wheels
- 2) Front wing height and overhang
- 3) Rear wing height and overhang
- 4) Front and rear wing width
- 5) Rear wing configuration
- 6) Rear bodywork area
- 7) Rear winglet height
- 8) Skidblock thickness
- 9) Stepped bottom
- 10) Diffuser height
- 11) Diffuser area
- 12) Overall height
- 13) Overall width

The profile of the prescribed front wing section in Article 3.7.3 of the 2013 Formula One Technical Regulations was checked on car numbers 05 and 06.

The maximum and minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 05 and 06.

It was confirmed for car numbers 05 and 06 that any vertical cross section of bodywork normal to the car centre line and situated in the volumes defined in Article 3.8.4 form one tangent continuous curve on its external surface with a radius no less than 75mm.

The concave radius of sections of the three rear wing elements which are in contact with the external air stream was checked on car numbers 05 and 06.

The front and rear brake air duct dimensions were checked on car numbers 05 and 06.

It was checked that car numbers 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 22 and 23 did not exceed 80 km/h when leaving the formation grid prior to the start of the race.

The units locking status was checked on all cars.

The session type has been confirmed for all cars.

Software version checks have been carried out on all cars.

Chassis FIA checksum was checked on all cars taking part in the race.

The start data of car numbers 01, 03, 04, 09, 10, 11 and 19 have been checked.

It was checked that car numbers 01, 02 and 03 did not exceed 18000 rpm during the race.

The fuel pressure of car numbers 01, 02 and 03 during the race was checked.

The logged pressure within the engine cooling system during the race was checked on car numbers 01, 02 and 03.

The tyres used by all drivers during the sessions today have been checked.

A fuel sample was taken from car numbers 01 and 09.

The fuel samples have been checked for density and analysed by gas chromatography.

The results of all the fuel analyses show that the fuels were the same as ones, which had been approved for use by the relevant competitors prior to the Event.

All car weights and the items checked were found to be in conformity with the 2013 FIA Formula One Technical Regulations.

**Jo Bauer**

**The FIA Formula 1 Technical Delegate**