



## 2017 MEXICAN GRAND PRIX

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<b>From</b>	The FIA Formula One Technical Delegate	<b>Document</b>	35
<b>To</b>	The FIA Stewards of the Meeting	<b>Date</b>	28 October 2017
		<b>Time</b>	17:45

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### Technical Delegate's Report

#### During the third free practice session:

The tyre starting pressures of all cars during P3 were checked.

The instantaneous fuel flow of all cars was checked.

#### Before the qualifying practice session:

It was confirmed for all cars that the gear ratios used during the remainder of this Event belong to the gear ratios declared to the FIA technical delegate at or before the first Event of the 2017 Championship.

The thickness of the brake discs of all cars taking part in the qualifying session was checked.

#### During the qualifying practice session:

Car numbers 77, 03, 31, 19, 02, 28 and 94 were weighed.

The weight distribution was checked on car numbers 77, 03, 31, 19, 02, 28 and 94.

Car number 94 was 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) Stepped bottom

- 9) Diffuser height
- 10) Diffuser width
- 11) Overall height
- 12) Overall width

The profile of the prescribed front wing section in Article 3.3.2 of the 2017 Formula One Technical Regulations was checked on car number 94.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car number 94.

It was confirmed for car number 94 that any vertical cross section of bodywork normal to the car centre line and situated in the volumes defined in Article 3.5.7 form one tangent continuous curve on its external surface with a radius no less than 75mm.

The concave radius of sections of the two rear wing elements which are in contact with the external air stream was checked on car number 94.

The front and rear brake air duct dimensions were checked on car number 94.

The tyre starting pressures of all cars during the qualifying sessions were checked.

Fuel samples were taken from car numbers 18 and 09.

#### **After the qualifying practice session:**

Car numbers 44, 77, 03, 33, 05, 07, 11, 31, 27 and 55 were weighed.

Car numbers 44, 77, 03, 33, 05, 07, 11, 31, 27 and 55 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) Stepped bottom
- 9) Diffuser height
- 10) Diffuser width
- 11) Overall height
- 12) Overall width

The chassis identification transponders have been confirmed for car numbers 44, 77, 03, 33, 05, 07, 11, 31, 27 and 55.

The profile of the prescribed front wing section in Article 3.3.2 of the 2017 Formula One Technical Regulations was checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 27 and 55.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 27 and 55.

It was confirmed for car numbers 44, 77, 03, 33, 05, 07, 11, 31, 27 and 55 that any vertical cross section of bodywork normal to the car centre line and situated in the volumes defined in Article 3.5.7 form one tangent continuous curve on its external surface with a radius no less than 75mm.

The concave radius of sections of the two rear wing elements which are in contact with the external air stream was checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 27 and 55.

The front and rear brake air duct dimensions were checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 27 and 55.

A horizontal rear wing deflection test was carried out on car numbers 44, 33 and 05.

The DRS minimum and maximum position were checked on car numbers 44, 33, 05, 31 and 27.

The front and rear wheel retention devices were checked on car numbers 77, 03, 07, 31 and 27.

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.

Torque sensor software version checks have been carried out on all cars.

Torque sensor calibration checks have been carried out on all cars.

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

Gear shift data checks have been carried out for car numbers 05, 07, 27 and 55.

The torque coordinator demands were checked on car numbers 44, 03, 33, 05, 14 and 02.

The torque control was checked on car numbers 44, 03, 33, 05, 14 and 02.

The rear brakes pressure control was checked on car numbers 44, 33, 07, 11, 19, 18, 14, 28, 08, 55 and 09.

The ES state of charge on-track limits were checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 28, 08, 20, 27, 55 and 09.

The lap energy release and recovery limits were checked on car numbers 44, 77, 03, 33, 05, 07, 11,

31, 19, 18, 14, 02, 28, 08, 20, 27, 55 and 09.

The MGU-K power limits were checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 28, 08, 20, 27, 55 and 09.

The maximum MGU-K torque was checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 28, 08, 20, 27, 55 and 09.

The maximum MGU-K speed was checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 28, 08, 20, 27, 55 and 09.

The maximum MGU-H speed was checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 28, 08, 20, 27, 55 and 09.

The ERS lap energy limits were checked on all cars.

It was checked that all cars did not exceed 15000 rpm during the qualifying practice session.

The fuel pressure of all cars during the qualifying session was checked.

The logged pressure within the engine cooling system during the qualifying session was checked on all cars.

The fuel temperature of car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 28, 08, 20, 27, 55, 09 and 94 was checked.

The instantaneous fuel flow of car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 28, 08, 20, 27, 55, 09 and 94 was checked.

Fuel system pressures of car numbers 44, 77, 03, 33, 05, 07, 19, 18, 14, 02, 28, 08, 20, 27, 55, 09 and 94 during the qualifying sessions were checked.

Fuel samples were taken from car numbers 77, 05 and 27.

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

The results of 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.

Further the density change of the fuel samples taken today was within the permitted limits.

The following software versions have been used by the teams during the qualifying sessions:

<b>Team</b>	<b>FIA Standard ECU system version</b>
Mercedes	SR913
Red Bull	SR913
Ferrari	SR913
Force India	SR913
Williams	SR913

McLaren	SR913
Toro Rosso	SR913
Haas	SR913
Renault	SR913
Sauber	SR913

All the above items were found to be in conformity with the 2017 FIA Formula One Technical Regulations.

**Jo Bauer**

**The FIA Formula One Technical Delegate**