



2014 UNITED STATES GRAND PRIX

From	The FIA Formula One Technical Delegate	Document	29
To	The FIA Stewards of the Meeting	Date	01 November 2014
		Time	17:37

During the third free practice session:

The tyre starting pressures of all cars were checked.

The fuel flow of all cars was checked.

The fuel temperature 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 2014 Championship or were re-nominated.

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

During the qualifying practice session:

Car numbers 01, 14, 20, 25, 26 and 77 were weighed.

The weight distribution was checked on car numbers 01, 14, 20, 25, 26 and 77.

Car numbers 25 and 26 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 tyre starting pressures of all cars during the qualifying sessions were checked.

Fuel samples were taken from car numbers 13 and 21.

After the qualifying practice session:

Car numbers 03, 44, 06, 14, 07, 22, 20, 99, 19 and 77 were weighed.

Car numbers 03, 44, 06, 14, 07, 22, 20, 99, 19 and 77 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 the top ten cars.

The profile of the prescribed front wing section in Article 3.7.3 of the 2014 Formula One Technical Regulations was checked on car numbers 03, 44, 06, 14, 07, 22, 20, 99, 19 and 77.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 03, 44, 06, 14, 07, 22, 20, 99, 19 and 77.

It was confirmed for car numbers 03, 44, 06, 14, 07, 22, 20, 99, 19 and 77 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 two rear wing elements which are in contact with the external air stream was checked on car numbers 03, 44, 06, 14, 07, 22, 20, 99, 19 and 77.

The front and rear brake air duct dimensions were checked on car numbers 03, 44, 06, 14, 07, 22, 20, 99, 19 and 77.

The inclination of the last 150mm of the exhaust tailpipe was checked on car numbers 03, 44, 06,

14, 07, 22, 20, 99, 19 and 77.

The diameter of the last 150mm of the exhaust tailpipe was checked on car numbers 03, 44, 06, 14, 07, 22, 20, 99, 19 and 77.

The clearance between any bodywork rearward of the last 150mm of the exhaust tailpipe and its axis was checked on car numbers 03, 44, 06, 14, 07, 22, 20, 99, 19 and 77.

A horizontal rear wing deflection test was carried out on car numbers 03, 06 and 77.

The flatness of the reference plane was checked on car numbers 03, 06, and 77.

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 qualifying sessions.

Gear shift data checks have been carried out for car numbers 44, 06, 14, 07, 99 and 19.

The ES state of charge on-track limits were checked on car numbers 03, 44, 06, 14, 99 and 77.

The lap energy release and recovery limits were checked on car numbers 03, 44, 06, 14, 99 and 77.

The maximum MGU-K torque was checked on car numbers 03, 44, 06, 14, 99 and 77.

The maximum MGU-K speed was checked on car numbers 03, 44, 06, 14, 99 and 77.

The maximum MGU-H speed was checked on car numbers 03, 44, 06, 14, 99 and 77.

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

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

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

The fuel flow of all cars was checked.

The fuel temperature of all cars was checked.

Fuel samples were taken from car numbers 06, 14 and 77.

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:

Team	FIA Standard ECU system version
Ferrari	SR644
Force India	SR645
Lotus	SR645
McLaren	SR645
Mercedes	SR645
Red Bull	SR645
Sauber	SR645
Toro Rosso	SR645
Williams	SR645

All the above items were found to be in conformity with the 2014 FIA Formula One Technical Regulations.

Jo Bauer

The FIA Formula One Technical Delegate