



2017 AZERBAIJAN GRAND PRIX

From	The FIA Formula One Technical Delegate	Document	33
To	The FIA Stewards of the Meeting	Date	24 June 2017
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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 car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94 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 33, 07, 31, 19, 55, 08 and 09 were weighed.

The weight distribution was checked on car numbers 33, 07, 31, 19, 55, 08 and 09.

Car numbers 55 and 09 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 profile of the prescribed front wing section in Article 3.3.2 of the 2017 Formula One Technical Regulations was checked on car numbers 55 and 09.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 55 and 09.

It was confirmed for car numbers 55 and 09 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 55 and 09.

The front and rear brake air duct dimensions were checked on car numbers 55 and 09.

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

Fuel samples were taken from car numbers 02 and 94.

After the qualifying practice session:

Car numbers 44, 77, 33, 05, 07, 11, 31, 19 and 18 were weighed.

Car numbers 44, 77, 33, 05, 07, 11, 31, 19 and 18 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, 33, 05, 07, 11, 31, 19 and 18.

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, 33, 05, 07, 11, 31, 19 and 18.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 44, 77, 33, 05, 07, 11, 31, 19 and 18.

It was confirmed for car numbers 44, 77, 33, 05, 07, 11, 31, 19 and 18 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, 33, 05, 07, 11, 31, 19 and 18.

The front and rear brake air duct dimensions were checked on car numbers 44, 77, 33, 05, 07, 11, 31, 19 and 18.

A vertical rear wing deflection test was carried out on car numbers 44, 33, 07 and 11.

The units locking status was checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94.

The session type has been confirmed for car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94.

Software version checks have been carried out on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94.

Torque sensor software version checks have been carried out on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94.

Torque sensor calibration checks have been carried out on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94.

Chassis FIA checksum was checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94.

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

The torque coordinator demands were checked on car numbers 44, 33, 05, 14 and 26.

The torque control was checked on car numbers 44, 33, 05, 14 and 26.

The rear brakes pressure control was checked on all car numbers 44, 33, 05, 19, 14 and 26.

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, 26, 55, 08, 20, 27, 09 and 94.

The lap energy release and recovery limits were checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94.

The MGU-K power limits were checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94.

The maximum MGU-K torque was checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94.

The maximum MGU-K speed was checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94.

The maximum MGU-H speed was checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94.

The ERS lap energy limits were checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94.

It was checked that car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94 did not exceed 15000 rpm during the qualifying practice session.

The fuel pressure of car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94 during the qualifying session was checked.

The logged pressure within the engine cooling system during the qualifying session was checked on car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94.

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

The fuel temperature of car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94 was checked.

The instantaneous fuel flow of car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94 was checked.

Fuel system pressures of car numbers 44, 77, 03, 33, 05, 07, 11, 31, 19, 18, 14, 02, 26, 55, 08, 20, 27, 09 and 94 during the qualifying sessions were checked.

Fuel samples were taken from car numbers 44, 31 and 18.

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
Mercedes	SR910
Red Bull	SR910
Ferrari	SR910
Force India	SR910
Williams	SR910
McLaren	SR907
Toro Rosso	SR910
Haas	SR907
Renault	SR910
Sauber	SR910

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