

2018 BRITISH GRAND PRIX

5 - 8 July 2018

From	The FIA Formula One Technical Delegate	Document	30
To	The Stewards	Date	07 July 2018
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Technical Delegate's Report

Before the third free practice session:

An engine oil sample was taken from car number 11.

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:

An engine oil sample was taken from car numbers 77 and 05.

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 2018 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 44, 07, 31, 55, 10, 08, 14 and 09 were weighed.

The weight distribution was checked on car numbers 44, 07, 31, 55, 14 and 09.

Fuel samples were taken from car numbers 27 and 02.

After the qualifying practice session:

Car numbers 44, 77, 05, 07, 03, 33, 31, 08, 20 and 16 were weighed.

Car numbers 44, 77, 05, 07, 03, 33, 31, 08, 20 and 16 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, 05, 07, 03, 33, 31, 20 and 16.

The profile of the prescribed front wing section in Article 3.3.2 of the 2018 Formula One Technical Regulations was checked on car numbers 44, 77, 05, 07, 03, 33, 31, 08, 20 and 16.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 44, 77, 05, 07, 03, 33, 31, 08, 20 and 16.

It was confirmed for car numbers 44, 77, 05, 07, 03, 33, 31, 08, 20 and 16 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, 05, 07, 03, 33, 31, 08, 20 and 16.

The front and rear brake air duct dimensions were checked on car numbers 44, 77, 05, 07, 03, 33, 31, 08, 20 and 16.

The inclination, the diameter and the position of the last 150mm of the exhaust tailpipes were checked on car numbers 44, 07, 33, 31, 08 and 16.

The front axle ride height change with steer was checked on car numbers 44, 05, 33, 31, 20 and 16.

The units locking status was checked on car numbers 44, 77, 05, 07, 03, 33, 11, 31, 18, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16.

The session type has been confirmed for car numbers 44, 77, 05, 07, 03, 33, 11, 31, 18, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16.

Software version checks have been carried out on car numbers 44, 77, 05, 07, 03, 33, 11, 31, 18, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16.

Torque sensor software version checks have been carried out on car numbers 44, 77, 05, 07, 03, 33, 11, 31, 18, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16.

Torque sensor calibration checks have been carried out on car numbers 44, 77, 05, 07, 03, 33, 11, 31, 18, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16.

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 and 31.

The plenum temperature was checked on car numbers 44, 77, 05, 07, 03, 33, 11, 31, 18, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16.

The torque coordinator demands were checked on car numbers 44, 05, 33, 31, 55, 10, 20 and 16.

The torque control was checked on car numbers 44, 05, 33, 31, 55, 10, 20 and 16.

The rear brakes pressure control was checked on car numbers 44, 05, 33, 31, 55, 10, 20 and 16.

The brake temperature warnings were checked on car numbers 33, 31, 55, 10, 20 and 16.

The ES state of charge on-track limits were checked on car numbers 44, 77, 05, 07, 03, 33, 11, 31, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16.

The lap energy release and recovery limits were checked on car numbers 44, 77, 05, 07, 03, 33, 11, 31, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16.

The MGU-K power limits were checked on car numbers 44, 77, 05, 07, 03, 33, 11, 31, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16.

The maximum MGU-K torque was checked on car numbers 44, 77, 05, 07, 03, 33, 11, 31, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16.

The maximum MGU-K speed was checked on car numbers 44, 77, 05, 07, 03, 33, 11, 31, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16.

The maximum MGU-H speed was checked on car numbers 44, 77, 05, 07, 03, 33, 11, 31, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16.

The ERS lap energy limits were checked on car numbers 44, 77, 05, 07, 03, 33, 11, 31, 18, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16.

It was checked that car numbers 44, 77, 05, 07, 03, 33, 11, 31, 18, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16 did not exceed 15000 rpm during the qualifying practice session.

The fuel pressure of car numbers 44, 77, 05, 07, 03, 33, 11, 31, 18, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16 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, 05, 07, 03, 33, 11, 31, 18, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16.

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

The fuel temperature of 44, 77, 05, 07, 03, 33, 11, 31, 18, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16 was checked.

The instantaneous fuel flow of car numbers 44, 77, 05, 07, 03, 33, 11, 31, 18, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16 was checked.

Fuel flow meter calibration checksums were checked on car numbers 44, 77, 05, 07, 03, 33, 11, 31, 18, 35, 27, 55, 10, 08, 20, 14, 02, 09 and 16.

Fuel samples were taken from car numbers 44 and 16.

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 engine oil samples have been analysed by FTIR spectroscopy and viscometry.

The results of the FTIR analyses show that the sampled oils were consistent with reference engine oil samples which had been approved for use by the relevant competitors prior to the Event.

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

Team	FIA Standard ECU system version
Mercedes	SR1013
Ferrari	SR1013
Red Bull	SR1013
Force India	SR1013
Williams	SR1013
Renault	SR1013
Toro Rosso	SR1013
Haas	SR1013
McLaren	SR1013
Sauber	SR1013

All the above items were found to be in conformity with the 2018 FIA Formula One Technical

Regulations.

Jo Bauer

The FIA Formula One Technical Delegate