

2020 SPANISH GRAND PRIX

13 - 16 August 2020

From	The FIA Formula One Technical Delegate	Document	28
To	The Stewards	Date	15 August 2020
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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 fuel flow meter calibration checksum was checked on all cars.

The instantaneous fuel mass flow of all cars was checked.

The fuel temperature of all cars was checked.

The IVT code and calibration checksums were checked on all cars.

The IVT temperatures were checked on all cars.

The ES state of charge on-track limits were checked on all cars.

The lap energy release and recovery limits were checked on all cars.

The MGU-K power limits were checked on all cars.

The maximum MGU-K speed was checked on all cars.

The maximum MGU-K torque was checked on all cars.

The maximum MGU-H speed was checked on all cars.

After the third free practice session:

An engine oil sample was taken from car number 10.

Before the qualifying practice session:

An engine oil sample was taken from car numbers 11 and 99.

A fuel sample was taken from car numbers 11 and 99.

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 2020 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, 33, 03, 10, 11, 07, 99 and 06 were weighed.

The weight distribution was checked on car numbers 44, 33, 03, 10, 11, 07, 99 and 06.

After the qualifying practice session:

Car numbers 44, 77, 16, 33, 23, 55, 04, 10, 11 and 18 were weighed.

Car numbers 44, 77, 16, 33, 23, 55, 04, 10, 11 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 the top ten cars.

The profile of the prescribed front wing section in Article 3.3.1 of the 2020 Formula One Technical Regulations was checked on car numbers 44, 77, 16, 33, 23, 55, 04, 10, 11 and 18.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 44, 77, 16, 33, 23, 55, 04, 10, 11 and 18.

It was confirmed for car numbers 44, 77, 16, 33, 23, 55, 04, 10, 11 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, 16, 33, 23, 55, 04, 10, 11 and 18.

The front and rear brake air duct dimensions were checked on car numbers 44, 77, 16, 33, 23, 55, 04, 10, 11 and 18.

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

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

The uppermost rear wing element adjustable positions were checked on car numbers 77, 16, 23, 04 and 11.

The engine high rev limit bands were checked on all cars.

The plenum temperature was checked on all cars.

The IVT code and calibration checksums were checked on all cars.

The session type has been confirmed for all cars.

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

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

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

The torque coordinator demands were checked on all cars.

The torque control was checked on all cars.

The rear brakes pressure control was checked on all cars.

Gear shift data checks have been carried out for car number 16.

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

Fuel flow meter calibration checksums were checked all cars.

The instantaneous fuel mass flow of all cars was checked.

The fuel temperature of all cars was checked.

Fuel samples were taken from car numbers 77, 55 and 10.

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.

An engine oil sample was taken from car number 77.

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-AMG Petronas Formula One Team	SR1208 + B115
Scuderia Ferrari	SR1207
Aston Martin Red Bull Racing	SR1208 + B115
McLaren F1 Team	SR1207
Renault DP World F1 Team	SR1207
Scuderia AlphaTauri Honda	SR1208 + B115
BWT Racing Point F1 Team	SR1208 + B115
Alfa Romeo Racing ORLEN	SR1207
Haas F1 Team	SR1207
Williams Racing	SR1208 + B115

All the above items were found to be in conformity with the 2020 FIA Formula One Technical Regulations.

Jo Bauer

The FIA Formula One Technical Delegate