

2021 DUTCH GRAND PRIX

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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 engine high rev limit bands were checked on all cars.

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 plenum temperature of all cars was checked.

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.

The SECU custom software versions were checked on all cars.

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 2021 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, 77, 04, 18, 05, 14, 10, 88, 99, 47, 63 and 06 were weighed.

The weight distribution was checked on car numbers 44, 77, 04, 18, 05, 14, 10, 88, 99, 47, 63 and 06.

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

After the qualifying practice session:

Car numbers 44, 77, 33, 03, 14, 31, 16, 55, 10 and 99 were weighed.

Car numbers 44, 77, 33, 31, 16, 10 and 99 were checked for the following:

- 1) Bodywork around the front wheels
- 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, 03, 14, 31, 16, 55, 10 and 99.

The profile of the prescribed front wing section in Article 3.3.1 of the 2021 Formula One Technical Regulations was checked on car numbers 44, 77, 33, 31, 16, 10 and 99.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 44, 77, 33, 31, 16, 10 and 99.

It was confirmed for car numbers 44, 77, 33, 31, 16, 10 and 99 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, 31, 16, 10 and 99.

The front and rear brake air duct dimensions were checked on car numbers 44, 77, 33, 31, 16, 10 and 99.

The inclination, the diameter and the position of the last 150mm of the exhaust tailpipes were checked on car numbers 44, 77, 33, 31, 16, 10 and 99.

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

The plenum temperature was 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.

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 car numbers 44, 77, 33, 31, 16 and 10.

The torque control was checked on car numbers 44, 77, 33, 31, 16 and 10.

The rear brakes pressure control was checked on all cars.

The steering wheel of all cars has been checked.

It was verified on all cars that the PCU dash board display configuration was not changed.

Custom software version checks have been carried out 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 tyres used by all drivers during the sessions today have been checked.

Fuel flow meter calibration checksums were checked on all cars.

The instantaneous fuel mass flow of all cars was checked.

The fuel temperature of all cars was checked.

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	SR1311
Red Bull Racing	SR1311
McLaren F1 Team	SR1311
Aston Martin Cognizant Formula One Team	SR1311
Alpine F1 Team	SR1311
Scuderia Ferrari	SR1311
Scuderia AlphaTauri Honda	SR1311
Alfa Romeo Racing ORLEN	SR1311
Uralkali Haas F1 Team	SR1311
Williams Racing	SR1311

All the above items were found to be in conformity with the 2021 FIA Formula One Technical Regulations.

Cars 44 and 77 were investigated for compliance with TD003 Issue E. The competitor presented valid reasons to justify the operation of their cars during Q2 and Q3.

Jo Bauer

The FIA Formula One Technical Delegate