

2021 ITALIAN GRAND PRIX

9 - 12 September 2021

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| From | The FIA Formula One Technical Delegate | Document | 63 |
| To | The Stewards | Date | 12 September 2021 |
| | | Time | 18:16 |

Technical Delegate's Report

Before the race:

A fuel sample was taken from car numbers 11, 05 and 14 and analysed during the race.

An engine oil sample was taken from car numbers 14 and 99.

The flatness of the reference and step plane and their position to each other was checked on car numbers 44, 33, 04, 05, 31, 16, 22, 99, 47 and 63.

On the grid it was checked that all cars had fitted their tyres when the "5-Minutes" signal was given.

On the grid the temperature of the LHS and RHS front and rear tyre was checked on all cars.

On the grid the minimum tyre starting pressure of the LHS and RHS front and rear tyre was checked on all cars.

After the race:

The following cars were weighed:

| Number | Car | Driver |
|---------------|-----------------------|------------------|
| 77 | Mercedes | Valtteri Bottas |
| 11 | Red Bull Racing Honda | Sergio Perez |
| 03 | McLaren Mercedes | Daniel Ricciardo |
| 04 | McLaren Mercedes | Lando Norris |
| 18 | Aston Martin Mercedes | Lance Stroll |
| 14 | Alpine Renault | Fernando Alonso |
| 31 | Alpine Renault | Esteban Ocon |

| | | |
|----|---------------------------|--------------------|
| 16 | Ferrari | Charles Leclerc |
| 55 | Ferrari | Carlos Sainz |
| 99 | Alfa Romeo Racing Ferrari | Antonio Giovinazzi |
| 47 | Haas Ferrari | Mick Schumacher |
| 63 | Williams Mercedes | George Russell |

The steering wheel of all classified cars has been checked.

Car numbers 18, 14, 31 and 63 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) Skidblock thickness
- 9) Stepped bottom
- 10) Diffuser height
- 11) Diffuser area
- 12) Overall height
- 13) Overall width

The profile of the in Article 3.3.1 of the 2021 Formula One Technical Regulations prescribed front wing section was checked on car numbers 18, 14, 31 and 63.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 18, 14, 31 and 63.

It was confirmed for car numbers 18, 14, 31 and 63 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 18, 14, 31 and 63.

The front and rear brake air duct dimensions were checked on car numbers 18, 14, 31 and 63.

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

The oil consumption was checked on car numbers 77, 11, 03, 04, 18, 14, 31, 16, 55 and 63.

The plenum temperature was checked on all cars.

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.

The session type has been confirmed for all cars.

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

The torque coordinator demands were checked on car numbers 77, 11, 03, 04, 18, 14, 31, 16, 55 and 63.

The torque control was checked on car numbers 77, 11, 03, 04, 18, 14, 31, 16, 55 and 63.

The rear brakes pressure control was checked on car numbers 44, 77, 33, 11, 03, 04, 18, 05, 14, 31, 16, 55, 88, 99, 09, 47, 63 and 06.

The brake temperature warnings were checked on car numbers 44, 77, 33, 11, 03, 04, 18, 05, 14, 31, 16, 55, 88, 99, 09, 47, 63 and 06.

The race start data of all cars have been checked.

Single clutch paddle use for the race start has been checked on all cars.

The MGU-K use at the race start was checked on all cars.

It was checked on all cars that the ES was not charged while the car was stationary in the pits.

It was checked that car numbers 44, 77, 33, 11, 03, 04, 18, 05, 14, 31, 16, 55, 88, 99, 09, 47, 63 and 06 did not exceed 80 km/h when leaving the formation grid prior to the start of the race.

It was verified on all cars that the MD5 checksum of the PCU8 (dash board display) used on the car matched the configuration lodged with the FiA prior to the qualifying session.

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

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

It was checked that all cars did not exceed 15000 rpm during the race.

The fuel pressure of all cars during the race was checked.

The logged pressure within the engine cooling system during the race was checked on all cars.

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 total fuel mass consumed by car numbers all cars during the race was checked.

A fuel sample was taken from car number 04.

The fuel samples have been checked for density and analysed by gas chromatography.

The results of all the 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 04.

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.

All car weights and the items checked were found to be in conformity with the 2021 FIA Formula One Technical Regulations.

Jo Bauer

The FIA Formula One Technical Delegate