

## **2021 FRENCH GRAND PRIX**

17 -20 June 2021

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## **Technical Delegate's Report**

## Before the race:

Components of all cars were checked and compared with the information supplied by the relevant team's **U**sed **I**nventory **I**ncremental **L**ist (UIIL).

A front wing deflection test was carried out on car numbers 44, 14 and 55.

A front wing flap deflection test was carried out on car numbers 44, 14 and 55.

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

On the grid it was checked that the top ten cars had fitted the tyres which they had used when doing their fastest lap in Q2.

On the grid the temperature of the LHS and RHS front and rear tyre was checked on car numbers 33, 11, 03, 04, 18, 05, 14, 31, 22, 10, 07, 99, 09, 47, 63 and 06.

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
44	Mercedes	Lewis Hamilton
77	Mercedes	Valtteri Bottas
33	Red Bull Racing Honda	Max Verstappen

11	Red Bull Racing Honda	Sergio Perez
03	McLaren Mercedes	Daniel Ricciardo
04	McLaren Mercedes	Lando Norris
18	Aston Martin Mercedes	Lance Stroll
05	Aston Martin Mercedes	Sebastian Vettel
14	Alpine Renault	Fernando Alonso
55	Ferrari	Carlos Sainz
10	AlphaTauri Honda	Pierre Gasly
99	Alfa Romeo Racing Ferrari	Antonio Giovinazzi
47	Haas Ferrari	Mick Schumacher
63	Williams Mercedes	George Russell

The steering wheel of car numbers 44, 77, 33, 11, 03, 04, 18, 05, 14, 31, 16, 55, 10, 07, 99, 09, 47, 63 and 06 has been checked.

Car numbers 18 and 05 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 and 05.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 18 and 05.

It was confirmed for car numbers 18 and 05 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 and 05.

The front and rear brake air duct dimensions were checked on car numbers 18 and 05.

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 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 ES power model 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 all cars.

The torque control was checked on all cars.

The rear brakes pressure control was checked on all cars.

The brake temperature warnings were checked on all cars.

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 that car numbers 44, 77, 33, 11, 03, 04, 18, 05, 14, 31, 16, 55, 10, 07, 99, 09, 47, 63 and 06 exceeded 60 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.

Cold pressure checks according to TD003C were carried out during and after the Race on car numbers 44, 77, 33, 11, 03, 04, 18, 05, 14, 16 and 10.

The tyres used by all drivers during the race 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 total fuel mass consumed by all cars during the race was checked.

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