

2019 AUSTRALIAN GRAND PRIX

14 - 17 March 2019

From	The FIA Formula One Technical Delegate	Document	30
To	The Stewards	Date	17 March 2019
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Technical Delegate's Report

Before the race:

A front floor deflection test was carried on car numbers 44 and 16.

A fuel sample was taken from car numbers 33, 27 and 11 and analysed during the race.

An engine oil sample was taken from car numbers 27 and 11.

On the grid it was checked that all cars had fitted their tyres when the "3-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 10, 20 and 07.

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
05	Ferrari	Sebastian Vettel
16	Ferrari	Charles Leclerc
33	RBR Honda	Max Verstappen
27	Renault	Nico Hülkenberg

20	Haas Ferrari	Kevin Magnussen
04	McLaren Renault	Lando Norris
11	Racing Point Mercedes	Sergio Perez
18	Racing Point Mercedes	Lance Stroll
07	Alfa Romeo Ferrari	Kimi Räikkönen
26	Toro Rosso Honda	Daniil Kvyat
63	Williams Mercedes	George Russell

The steering wheel of all classified cars has been checked.

Car numbers 27, 18 and 26 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 3.3.2 of the 2019 Formula One Technical Regulations prescribed front wing section was checked on car numbers 27, 18 and 26.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 27, 18 and 26.

It was confirmed for car numbers 27, 18 and 26 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 27, 18 and 26.

The front and rear brake air duct dimensions were checked on car numbers 27, 18 and 26.

It was confirmed for car number 26 that the minimum weight of 743 kg was respected at all times during the race.

It was checked that no classified car exceeded 60 km/h when leaving the formation grid prior to the start of the race.

The race start data of all cars have been checked.

The units locking status 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.

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

The plenum temperature was checked on all cars.

The oil consumption was checked on car numbers 44, 77, 05, 16, 33, 27, 20, 18, 07 and 26.

The IVT code checksums were checked on all cars.

The IVT temperatures were checked on all cars.

It was checked on car numbers 44, 16, 33 and 20 that the MGU-K was not used below 100 km/h at the race start.

The ES state of charge on-track limits were checked on car numbers 44, 77, 05, 16, 33, 27, 20, 18, 07 and 26.

The lap energy release and recovery limits were checked on car numbers 44, 77, 05, 16, 33, 27, 20, 18, 07 and 26.

The maximum MGU-K speed was checked on car numbers 44, 77, 05, 16, 33, 27, 20, 18, 07 and 26.

The maximum MGU-K torque was checked on car numbers 44, 77, 05, 16, 33, 27, 20, 18, 07 and 26.

The MGU-K power limits were checked on car numbers 44, 77, 05, 16, 33, 27, 20, 18, 07 and 26.

The MGU-K power were checked on car numbers 44, 77, 05, 16, 33, 27, 20, 18, 07 and 26.

The maximum MGU-H speed was checked on car numbers 44, 77, 05, 16, 33, 27, 20, 18, 07 and 26.

The gear shift data of car numbers 05, 16, 20 and 27 have been checked.

The brake temperature warnings were checked on car numbers 44, 05, 33, 27, 20, 04, 11 and 07.

It was verified on car numbers 44, 77, 05, 16, 33, 10, 03, 27, 08, 20, 55, 04, 11, 18, 26, 23, 63 and 88 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.

Fuel flow meter calibration checksums were checked on all cars.

The instantaneous fuel flow of all cars was checked.

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

The fuel temperature of all cars was checked.

A fuel sample was taken from car number 77.

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 33.

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 2019 FIA Formula One Technical Regulations.

Jo Bauer

The FIA Formula One Technical Delegate