

2021 AZERBAIJAN GRAND PRIX

3 - 6 June 2021

From	The FIA Formula One Technical Delegate	Document	38
To	The Stewards	Date	06 June 2021
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Technical Delegate's Report

Before the race:

The following parts have been replaced today after 14:55 and before the start of the race:

Red Bull Racing Honda:

Car 11: Drinks hose NRV

AlphaTauri Honda:

Car 22: LHS mirror lense

Components of all cars were checked and compared with the information supplied by the relevant team ~~Used~~ Inventory Incremental List (UIIL).

A front wing deflection test was carried out on car numbers 44, 33 and 14.

A front wing flap deflection test was carried out on car numbers 44, 33 and 14.

A fuel sample was taken from car numbers 77, 99 and 63 and analysed during the race.

An engine oil sample was taken from car numbers 77 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 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

44, 33, 31, 16, 47 and 63.

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:

<i>Number</i>	<i>Car</i>	<i>Driver</i>
77	Mercedes	Valtteri Bottas
11	Red Bull Racing Honda	Sergio Perez
03	McLaren Mercedes	Daniel Ricciardo
04	McLaren Mercedes	Lando Norris
05	Aston Martin Mercedes	Sebastian Vettel
14	Alpine Renault	Fernando Alonso
16	Ferrari	Charles Leclerc
55	Ferrari	Carlos Sainz
22	AlphaTauri Honda	Yuki Tsunoda
10	AlphaTauri Honda	Pierre Gasly
07	Alfa Romeo Racing Ferrari	Kimi Räikkönen
47	Haas Ferrari	Mick Schumacher
06	Williams Mercedes	Nicholas Latifi

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 03, 05, 14, 55, 22 and 07 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 03, 05, 14, 55, 22 and 07.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 03, 05, 14, 55, 22 and 07.

It was confirmed for car numbers 03, 05, 14, 55, 22 and 07 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 03, 05, 14, 55, 22 and 07.

The front and rear brake air duct dimensions were checked on car numbers 03, 05, 14, 55, 22 and 07.

The oil consumption was 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 was checked on car numbers 44, 77, 33, 11, 03, 04, 18, 05, 14, 16, 55, 22, 10, 07, 99, 09, 47, 63 and 06.

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 44, 33, 04, 05, 14, 16, 10, 07, 47 and 06.

The torque control was checked on car numbers 44, 33, 04, 05, 14, 16, 10, 07, 47 and 06.

The rear brakes pressure control was checked on car numbers 44, 33, 04, 05, 14, 16, 10, 07, 47 and 06.

The brake temperature warnings were checked on car numbers 44, 33, 04, 05, 14, 16, 10, 07, 47 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.

It was checked that no classified car exceeded 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.

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.

A fuel sample was taken from car number 16.

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 16.

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