

2022 HUNGARIAN GRAND PRIX

28 - 31 July 2022

From	The FIA Formula One Technical Delegate	Document	44
To	The Stewards	Date	31 July 2022
		Time	19:28

Technical Delegate's Report

Before the race:

The following parts have been replaced today after 12:40 and before the start of the race:

Alfa Romeo Racing Ferrari:

Car 24: RHS rear wing endplate light

The floor of car number 03 was digitally scanned and the scanned data were compared with the team declared CAD drawings. Further the team declared CAD drawings were also compared with previously submitted versions and checked for compliance with the 2022 Formula One Technical Regulations.

A front floor deflection test was carried out on car number 18.

The uppermost rear wing element adjustable positions were checked on car numbers 44 and 04.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 44 and 04.

A fuel sample was taken from car numbers 16, 22 and 05 and analysed during the race.

An engine oil sample was taken from car numbers 22 and 05.

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 car numbers 03, 31, 18, 77 and 47.

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
63	Mercedes	George Russell
44	Mercedes	Lewis Hamilton
01	Red Bull Racing RBPT	Max Verstappen
11	Red Bull Racing RBPT	Sergio Perez
16	Ferrari	Charles Leclerc
55	Ferrari	Carlos Sainz
03	McLaren Mercedes	Daniel Ricciardo
04	McLaren Mercedes	Lando Norris
14	Alpine Renault	Fernando Alonso
31	Alpine Renault	Esteban Ocon
10	AlphaTauri RBPT	Pierre Gasly
22	AlphaTauri RBPT	Yuki Tsunoda
18	Aston Martin Mercedes	Lance Stroll
05	Aston Martin Mercedes	Sebastian Vettel
23	Williams Mercedes	Alexander Albon
06	Williams Mercedes	Nicholas Latifi
77	Alfa Romeo Racing Ferrari	Valtteri Bottas
24	Alfa Romeo Racing Ferrari	Zhou Guanyu
20	Haas Ferrari	Kevin Magnussen
47	Haas Ferrari	Mick Schumacher

The steering wheel of all cars has been checked.

The following aerodynamic component or bodywork areas were checked on car numbers 63, 16, 31 and 05:

- Floor Body - TR Article 3.5.1
- Floor Fences - TR Article 3.5.2
- Floor Edge Wing - TR Article 3.5.3
- Nose - TR Article 3.6.1
- Forward Chassis - TR Article 3.6.2
- Mid Chassis - TR Article 3.6.3
- Sidepod - TR Article 3.7.1
- Coke Panel - TR Article 3.7.2
- Engine Cover - TR Article 3.7.3
- Front Wing Endplate body - TR Article 3.9.2
- Front Wing Tip - TR Article 3.9.3

- Front Wing Diveplane - TR Article 3.9.4
- Front Wing Endplate - TR Article 3.9.5
- Rear Wing Profiles - TR Article 3.10.1
- Pylons - TR Article 3.10.2
- Rear Wing Beam - TR Article 3.10.3
- Rear Wing Endplate Body - TR Article 3.10.4
- Rear Wing Tip - TR Article 3.10.5
- Rear Wing Endplate - TR Article 3.10.7

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on all cars.

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

The oil consumption was checked on car numbers 63, 44, 01, 11, 16, 55, 14 and 31.

The plenum temperature was 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 63, 44, 01, 11, 16, 55, 14 and 31.

The torque control was checked on car numbers 63, 44, 01, 11, 16, 55, 14 and 31.

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.

It was checked that no car exceeded 80 km/h when leaving the formation grid prior to the start of the race.

It was verified on car numbers 63, 44, 01, 11, 16, 55, 03, 04, 14, 31, 10, 18, 05, 23, 06, 77, 24, 20 and 47 that the PCU dash display configuration was not changed during Parc Fermé.

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.

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.

A fuel sample was taken from car number 55.

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 2022 FIA Formula One Technical Regulations.

Jo Bauer

The FIA Formula One Technical Delegate