

2024 SPANISH GRAND PRIX  
21 - 23 June 2024

From	The FIA Formula One Technical Delegate	Document	51
To	The Stewards	Date	23 June 2024
		Time	18:40

Technical Delegate s Report

Before the Race:

A floor edge deflection test was carried on car number 01.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 77 and 24.

The uppermost rear wing element adjustable positions were checked on car numbers 77 and 24.

A symmetric and asymmetric front wing deflection test was carried out on car numbers 01, 44 and 04.

A front wing flap deflection test was carried out on car numbers 01, 44 and 04.

Clutch paddle linearity checks have been carried out on cars 16 and 04.

On the grid it was checked that all cars had fitted their tyres and the tyre heating blankets were disconnected, 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 01, 63, 44, 16, 55, 04, 18, 14, 31, 10, 22 and 77.

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
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01	Red Bull Racing Honda RBPT	Max Verstappen
11	Red Bull Racing Honda RBPT	Sergio Perez
63	Mercedes	George Russell
44	Mercedes	Lewis Hamilton
16	Ferrari	Charles Leclerc
55	Ferrari	Carlos Sainz
81	McLaren Mercedes	Oscar Piastri
04	McLaren Mercedes	Lando Norris
18	Aston Martin Aramco Mercedes	Lance Stroll
14	Aston Martin Aramco Mercedes	Fernando Alonso
31	Alpine Renault	Esteban Ocon
10	Alpine Renault	Pierre Gasly
23	Williams Mercedes	Alexander Albon
02	Williams Mercedes	Logan Sargeant
03	RB Honda RBPT	Daniel Ricciardo
22	RB Honda RBPT	Yuki Tsunoda
77	Kick Sauber Ferrari	Valtteri Bottas
24	Kick Sauber Ferrari	Zhou Guanyu
20	Haas Ferrari	Kevin Magnussen
27	Haas Ferrari	Nico H      lkenberg

The following aerodynamic component or bodywork areas were checked on car numbers 01, 63 and 24:

- |   |                          |                    |
|---|--------------------------|--------------------|
| - | 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 |
| - | Mirror Housing           | - TR Article 3.6.4 |
| - | Sidepod                  | - TR Article 3.7.1 |
| - | Coke Panel               | - TR Article 3.7.2 |
| - | Engine Cover             | - TR Article 3.7.3 |
| - | Front Wing Profiles      | - TR Article 3.9.1 |
| - | 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
- 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

A front floor deflection test was carried on car numbers 44 and 81.

The engine high rev limit bands were 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 partial load fuel mass flow of all cars was checked.

The fuel temperature of all cars was checked.

The plenum temperature was checked on all cars.

The oil consumption was checked on car numbers 01, 11, 63, 44, 16, 55, 81, 04, 31 and 10.

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 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.

The torque coordinator demands were checked on all cars.

The torque control 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 rear brakes pressure control was checked on all cars.

The brake temperature warnings were checked on all cars.

The steering wheel of all cars has been checked.

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 all cars 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.

All car weights and the items checked were found to be in conformity with the 2024 FIA Formula One Technical Regulations.

**Jo Bauer**

**The FIA Formula One Technical Delegate**