

FIA FORMULA 1 WORLD CHAMPIONSHIP



2024 LAS VEGAS GRAND PRIX

21 - 23 November 2024

From	The FIA Formula One Technical Delegate	Document 39
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To The Stewards Date 24 November 2024

Time 01:31

Technical Delegate's Report

Before the Race:

A vertical and angled rear wing mainplane deflection test was carried out on car number 04.

A rear wing flap deflection test was carried out on car number 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.

The tyre blanket control box set point was checked for all cars.

On the grid the temperature of the LHS and RHS front and rear tyre was checked on car number 23.

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
01	Red Bull Racing	Max Verstappen
	Honda RBPT	
11	Red Bull Racing	Sergio Perez
	Honda RBPT	
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	Lance Stroll
	Mercedes	
14	Aston Martin Aramco	Fernando Alonso
	Mercedes	
31	Alpine Renault	Esteban Ocon
43	Williams Mercedes	Franco Colapinto
30	RB Honda RBPT	Liam Lawson
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 Hülkenberg

The following aerodynamic component or bodywork areas were checked on car numbers 16, 81 and 22:

-	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 Endplate Body	- TR Article 3.10.4
-	Rear Wing Tip	- TR Article 3.10.5
-	Rear Wing Endplate	- TR Article 3.10.7

The plank and skid wear was checked on car numbers 01, 63 and 55.

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.

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 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 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 classified 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