

## **2023 BELGIAN GRAND PRIX**

28 - 30 July 2023

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## **Technical Delegate's Report**

## Before the race:

A fuel sample was taken from car numbers 55, 31 and 03 and analysed during the race.

An engine oil sample was taken from car number 31 and analysed during the race.

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 01, 11, 55, 63, 44, 31, 10, 81, 04, 77, 24, 18, 14, 27, 03, 23 and 02.

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 RBPT	iviax verstappen
11	Red Bull Racing RBPT	Sergio Perez
16	Ferrari	Charles Leclerc
63	Mercedes	George Russell
44	Mercedes	Lewis Hamilton
31	Alpine Renault	Esteban Ocon
10	Alpine Renault	Pierre Gasly
04	McLaren Mercedes	Lando Norris
77	Alfa Romeo Racing	Valtteri Bottas

	Ferrari	
24	Alfa Romeo Racing	Zhou Guanyu
	Ferrari	
18	Aston Martin	Lance Stroll
	Mercedes	
14	Aston Martin	Fernando Alonso
	Mercedes	
20	Haas Ferrari	Kevin
		Magnussen
27	Haas Ferrari	Nico Hülkenberg
03	AlphaTauri RBPT	Daniel Ricciardo
22	AlphaTauri RBPT	Yuki Tsunoda
23	Williams Mercedes	Alexander Albon
02	Williams Mercedes	Logan Sargeant

The steering wheel of all classified cars has been checked.

The following aerodynamic component or bodywork areas were checked on car numbers 01, 77 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 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 engine high rev limit bands were checked on all cars.

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 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 power model was checked on all cars.

The ES power model 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 all cars.

The torque control was checked on all cars.

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.

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.

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.

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 11.

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 Competition.

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 Competition.

All car weights and the items checked were found to be in conformity with the 2023 FIA Formula One Technical Regulations.

Jo Bauer

The FIA Formula One Technical Delegate