

## 2023 BELGIAN GRAND PRIX

28 - 30 July 2023

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<b>From</b>	The FIA Formula One Technical Delegate	<b>Document</b>	39
<b>To</b>	The Stewards	<b>Date</b>	29 July 2023
		<b>Time</b>	15:08

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### Technical Delegate's Report

#### Before the ShootOut sessions:

A fuel sample was taken from car number 27.

An engine oil sample was taken from car number 20.

It was confirmed for all cars that the gear ratios used during the remainder of this Competition belong to the gear ratios declared to the FIA technical delegate at or before the first Competition of the 2023 Championship.

#### During the ShootOut sessions:

Car numbers 20 and 23 were weighed.

The weight distribution was checked on car numbers 20 and 23.

The tyre starting pressures of all cars during the ShootOut sessions were checked.

#### After the ShootOut sessions:

Car numbers 01, 11, 16, 55, 63, 44, 31, 10, 81 and 04 were weighed.

The following aerodynamic component or bodywork areas were checked on car number 10:

- 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
- Tail - TR Article 3.8.1
- 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

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

The torque control was checked on all cars.

SECU software version checks have been carried out on all cars.

The fuel pressure of all cars during the ShootOut session was checked.

The logged pressure within the engine cooling system during the ShootOut session was checked on all cars.

The tyres used by all drivers during the sessions 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.

Fuel system pressures of all cars during the ShootOut sessions were checked.

A fuel sample was taken from car number 14.

All the fuel samples have been checked for density and analysed by gas chromatography.

The results of 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 14.

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.

The following SECU software versions have been used by the teams during the ShootOut sessions:

<b>Team</b>	<b>FIA Standard ECU system version</b>
Oracle Red Bull Racing	SR1509
Scuderia Ferrari	SR1509
Mercedes-AMG PETRONAS Formula One Team	SR1509
BWT Alpine F1 Team	SR1509
McLaren Formula 1 Team	SR1509
Alfa Romeo F1 Team Kick	SR1509
Aston Martin Aramco Cognizant Formula One Team	SR1509
MoneyGram Haas F1 Team	SR1509
Scuderia AlphaTauri	SR1509

Williams Racing

SR1509

All the above items were found to be in conformity with the 2023 FIA Formula One Technical Regulations.

**Jo Bauer**

**The FIA Formula One Technical Delegate**