



# 2024 AZERBAIJAN GRAND PRIX

## 13 - 15 September 2024

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<b>From</b>	The FIA Formula One Technical Delegate	<b>Document</b>	40
<b>To</b>	The Stewards	<b>Date</b>	14 September 2024
		<b>Time</b>	20:10

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### Technical Delegate's Report

#### Before the third free practice session:

A spare front corner of car numbers 03 and 22 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 conformance with the 2024 Formula One Technical Regulations.

#### During the third free practice session:

The tyre starting pressures of all cars during P3 were checked.

The fuel pressure of all cars during the third free practice session was checked.

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

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

The fuel flow meter calibration checksum was 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 of all cars was checked.

The exhaust fluid mass flow of all cars was checked.

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.

Torque sensor software version checks have been carried out on all cars.

Torque sensor calibration checks have been carried out on all cars.

The SECU custom software versions were checked on all cars.

### **Before the Qualifying practice session:**

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 2024 Championship.

The thickness of the brake discs of car numbers 63, 44, 81, 04, 23, 43 and 27 was checked.

### **During the Qualifying practice session:**

Car numbers 01, 63, 44, 16, 81, 18, 14, 10, 22, 77, 24, 50 and 27 were weighed.

The weight distribution was checked on car numbers 01, 63, 44, 16, 81, 18, 14, 10, 22, 77, 24, 50 and 27.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 04, 18, 31, 10, 03, 22, 77, 24, 50 and 27.

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

## **After the Qualifying practice session:**

Car numbers 01, 11, 63, 44, 16, 55, 81, 14, 23 and 43 were weighed.

The following aerodynamic component or bodywork areas were checked on car numbers 63, 14 and 43:

- Floor Body - TR Article 3.5.1
- Floor Fences - TR Article 3.5.2
- Floor Edge Wing - TR Article 3.5.3
- Bib - TR Article 3.5.4
- 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 minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 01, 11, 63, 44, 16, 55, 81, 14, 23 and 43.

A symmetric and asymmetric front wing deflection test was carried on car numbers 01, 63, 16 and 04.

A front wing flap deflection test was carried on car numbers 01, 63, 16 and 04.

It was confirmed for car numbers 55 and 14 that the minimum weight of 798 kg was respected at all times during the qualifying practice sessions.

It was confirmed for car numbers 55 and 14 that after the Qualifying session there was enough fuel on board the car for the 1 litre fuel sample.

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

The logged pressure within the engine cooling system during the qualifying session 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 car numbers 01, 11, 63, 44, 16, 55, 81, 04, 18, 14, 31, 23, 43, 03, 22, 77, 24, 50 and 27 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 exhaust fluid mass flow of all cars was checked.

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.

The session type has been confirmed for all cars.

Chassis FIA checksum was checked on all cars taking part in the qualifying sessions.

Torque sensor software version checks have been carried out on all cars.

Torque sensor calibration checks have been carried out on all cars.

The rear brakes pressure control was checked on all cars.

The steering wheel of all cars has been checked.

It was verified on all cars that the PCU dash board display configuration was not changed.

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

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

The tyres used by all drivers during the sessions today have been checked.

A cold tyres pressure check has been carried out on car number 43.

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

<b>Team</b>	<b>FIA Standard ECU system version</b>
Oracle Red Bull Racing	SR1607
Mercedes-AMG PETRONAS Formula One Team	SR1606
Scuderia Ferrari	SR1607
McLaren Formula 1 Team	SR1606
Aston Martin Aramco Formula One Team	SR1606
BWT Alpine F1 Team	SR1606
Williams Racing	SR1606
VISA Cash App RB Formula One Team	SR1607
Stake F1 Team Kick Sauber	SR1607
MoneyGram Haas F1 Team	SR1607

Apart from the instantaneous fuel mass flow of car number 10 during the qualifying session (see Document 36), all the above items were found to be in conformity with the 2024 FIA Formula One Technical Regulations.

**Jo Bauer**

**The FIA Formula One Technical Delegate**