

# 2024 MEXICO CITY GRAND PRIX

## 25 - 27 October 2024

From	The FIA Formula One Technical Delegate	Document	33
To	The Stewards	Date	26 October 2024
		Time	18:18

### Technical Delegate's Report

#### 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 ECU custom software versions were checked on all cars.

**After the third free practice session:**

An engine oil sample was taken from car number 11.

**Before the Qualifying practice session:**

A fuel sample was taken from car numbers 81, 14 and 23.

An engine oil sample was taken from car numbers 14 and 23.

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.

**During the Qualifying practice session:**

Car numbers 01, 16, 55, 04, 18, 14, 31, 10, 43, 30 and 20 were weighed.

The weight distribution was checked on car numbers 01, 16, 55, 04, 18, 14, 31, 10, 43, 30 and 20.

The uppermost rear wing element adjustable positions were checked on car numbers 11 and 81.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 11 and 81.

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

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

Car numbers 01, 63, 44, 16, 55, 04, 10, 23, 20 and 27 were weighed.

The uppermost rear wing element adjustable positions were checked on car numbers 01, 63, 44, 16, 55, 04, 14, 10, 23, 20 and 27.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 01, 63, 44, 16, 55, 04, 14, 10, 23, 20 and 27.

The position and the shape of the plank was digitally checked on car number 01.

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 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 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 brake balance demand was checked on car numbers 11, 44, 16, 81, 14, 10, 43, 22, 24 and 20.

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 fuel sample was taken from car numbers 04 and 63.

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 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.

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

Team	FIA Standard ECU system version
Oracle Red Bull Racing	SR1608

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	SR1608
Stake F1 Team Kick Sauber	SR1607
MoneyGram Haas F1 Team	SR1607

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**