



2025 SPANISH GRAND PRIX

30 May - 01 June 2025

From	The FIA Formula One Technical Delegate	Document	22
To	The Stewards	Date	31 May 2025
		Time	18:53

Technical Delegate's Report

Before the third free practice session:

The front wing of car number 43 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 2025 Formula One Technical Regulations.

The front wing flap adjustable range of car number 43 was digitally checked.

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.

After the third free practice session:

An engine oil sample was taken from car number 81.

Before the Qualifying practice session:

A fuel sample was taken from car numbers 30, 55 and 05.

An engine oil sample was taken from car numbers 30 and 55.

During the Qualifying practice session:

Car numbers 81, 04, 16, 44, 01, 10, 31, 06, 23, 55, 27 and 05 were weighed.

The weight distribution was checked on car numbers 81, 04, 16, 44, 01, 10, 31, 06, 23, 55, 27 and 05.

The uppermost rear wing element adjustable positions were checked on car numbers 22, 87, 55 and 05.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 22, 87, 55 and 05.

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

After the Qualifying practice session:

Car numbers 81, 04, 16, 44, 01, 63, 12, 14, 10 and 06 were weighed.

The following aerodynamic component or bodywork areas were checked on car numbers 44, 10 and 06:

- | | |
|----------------------------|---------------------|
| - 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 |
| - Pylons | - TR Article 3.10.2 |
| - 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 uppermost rear wing element adjustable positions were checked on car numbers 81, 04, 16, 44, 01, 63 and 10.

The minimum distance between the adjacent rear wing sections at any longitudinal vertical plane was checked on car numbers 81, 04, 16, 44, 01, 63 and 10.

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.

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 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.

The tyres cold pressure was checked on car numbers 12 and 10.

A fuel sample was taken from car numbers 81 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 63.

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
McLaren Formula 1 Team	SR1704
Scuderia Ferrari HP	SR1704
Oracle Red Bull Racing	SR1704
Mercedes-AMG PETRONAS Formula One Team	SR1704
Aston Martin Aramco Formula One Team	SR1704
BWT Alpine Formula One Team	SR1705
MoneyGram Haas F1 Team	SR1704
VISA Cash App Racing Bulls Formula One Team	SR1704
Atlassian Williams Racing	SR1704
Kick Sauber F1 Team	SR1704

All the above items were found to be in conformity with the 2025 FIA Formula One Technical Regulations.

Jo Bauer

The FIA Formula One Technical Delegate