

2025 BAHRAIN GRAND PRIX

11 - 13 April 2025

From	The FIA Formula One Technical Delegate	Document	56
To	The Stewards	Date	13 April 2025
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Technical Delegate's Report

Before the Race:

A spare RHS front corner of car numbers 31 and 87 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 of car number 06 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 06 was digitally checked.

The thickness, the density and the hardness of the skids of car numbers 18, 14, 10, 07, 87, 06 and 30 were checked.

A vertical and angled rear wing main plane deflection test was carried out on car numbers 81 and 55.

A rear wing main plane tip deflection test was carried out on car numbers 81 and 55.

A front floor deflection test was carried on car number 16.

The height of the front wing gurneys were checked on car numbers 81, 04, 16, 44, 01, 22, 31, 87 and 05.

The height of the rear wing gurney were checked on car numbers 81, 04, 16, 44, 01, 22, 63, 12, 18, 14, 10, 07, 31, 87, 06, 30, 27 and 05.

The ICE air intake system and the cooling system of car number 10 were checked.

Clutch paddle linearity checks have been carried out on cars 44 and 22.

On the grid it was checked that all cars had fitted their tyres and the tyre heating blankets were disconnected, when the 5-Minutes signal was given.

The tyre control box settings were checked on the grid for the race start tyre sets of all cars.

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:

<i>Number</i>	<i>Car</i>	<i>Driver</i>
81	McLaren Mercedes	Oscar Piastrì
04	McLaren Mercedes	Lando Norris
16	Ferrari	Charles Leclerc
44	Ferrari	Lewis Hamilton
01	Red Bull Racing Honda RBPT	Max Verstappen
22	Red Bull Racing Honda RBPT	Yuki Tsunoda
63	Mercedes	George Russell
12	Mercedes	Kimi Antonelli
18	Aston Martin Aramco Mercedes	Lance Stroll
14	Aston Martin Aramco Mercedes	Fernando Alonso
10	Alpine Renault	Pierre Gasly
07	Alpine Renault	Jack Doohan
31	Haas Ferrari	Esteban Ocon
87	Haas Ferrari	Oliver Bearman
06	Racing Bulls Honda RBPT	Isack Hadjar
30	Racing Bulls Honda RBPT	Liam Lawson
23	Williams Mercedes	Alexander Albon
27	Kick Sauber Ferrari	Nico Hülkenberg
05	Kick Sauber Ferrari	Gabriel Bortoleto

The following aerodynamic component or bodywork areas were checked on car number 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
- Tail - TR Article 3.8.1
- Exhaust Pipe - TR Article 3.8.2
- 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

A vertical and angled rear wing main plane deflection test was carried out on car number 22.

A rear wing main plane tip deflection test was carried out on car number 22.

The plank and skid wear was checked on car numbers 22, 12, 14, 07, 87, 06, 23 and 27.

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.

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 oil consumption 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 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.

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 race.

The rear brakes pressure control was checked on all cars.

The brake temperature warnings were checked on all cars.

The steering wheel of all cars has been checked.

The race start data of all cars have been checked.

Single clutch paddle use for the race start has been checked on all cars.

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.

Apart from the skid wear of car number 27 (see Document 51), all car weights and the items checked were found to be in conformity with the 2025 FIA Formula One Technical Regulations.

Jo Bauer

The FIA Formula One Technical Delegate