



# 2024 ITALIAN GRAND PRIX

## 30 August - 01 September 2024

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| <b>From</b> | The FIA Formula One Technical Delegate | <b>Document</b> | 61                |
| <b>To</b>   | The Stewards                           | <b>Date</b>     | 01 September 2024 |
|             |  | <b>Time</b>     | 18:35             |

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### Technical Delegate's Report

#### Before the Race:

A floor edge deflection test was carried on car number 14.

A front floor deflection test was carried on car numbers 16 and 04.

Clutch paddle linearity checks have been carried out on cars 11 and 44.

A fuel sample was taken from car numbers 11, 44 and 31 and analysed during the race.

An engine oil sample was taken from car number 11 and 31.

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.

On the grid the temperature of the LHS and RHS front and rear tyre was checked on car numbers 01, 63, 55, 04, 10, 23 and 20.

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:

| <b>Number</b> | <b>Car</b>                    | <b>Driver</b>  |
|---------------|-------------------------------|----------------|
| 01            | Red Bull Racing<br>Honda RBPT | Max Verstappen |
| 11            | Red Bull Racing               | Sergio Perez   |

|    |                                 |                    |
|----|---------------------------------|--------------------|
|    | Honda RBPT                      |                    |
| 63 | Mercedes                        | George Russell     |
| 44 | Mercedes                        | Lewis Hamilton     |
| 16 | Ferrari                         | Charles Leclerc    |
| 55 | Ferrari                         | Carlos Sainz       |
| 81 | McLaren Mercedes                | Oscar Piastri      |
| 04 | McLaren Mercedes                | Lando Norris       |
| 18 | Aston Martin Aramco<br>Mercedes | Lance Stroll       |
| 14 | Aston Martin Aramco<br>Mercedes | Fernando Alonso    |
| 31 | Alpine Renault                  | Esteban Ocon       |
| 10 | Alpine Renault                  | Pierre Gasly       |
| 23 | Williams Mercedes               | Alexander Albon    |
| 43 | Williams Mercedes               | Franco Colapinto   |
| 03 | RB Honda RBPT                   | Daniel Ricciardo   |
| 77 | Kick Sauber Ferrari             | Valtteri Bottas    |
| 24 | Kick Sauber Ferrari             | Zhou Guanyu        |
| 20 | Haas Ferrari                    | Kevin<br>Magnussen |
| 27 | Haas Ferrari                    | Nico Hülkenberg    |

The following aerodynamic component or bodywork areas were checked on car numbers 01, 04 and 03:

- 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
- 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 Endplate Body - TR Article 3.10.4
- Rear Wing Tip - TR Article 3.10.5

- Rear Wing Endplate - TR Article 3.10.7

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 classified 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 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.

A fuel sample was taken from car number 63.

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

The results of all the 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.

All car weights and the items checked were found to be in conformity with the 2024 FIA Formula One Technical Regulations.

**Jo Bauer**

**The FIA Formula One Technical Delegate**