

## 2018 MONACO GRAND PRIX

23 - 27 May 2018

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<b>From</b>	The FIA Formula One Technical Delegate	<b>Document</b>	32
<b>To</b>	The Stewards	<b>Date</b>	26 May 2018
		<b>Time</b>	18:43

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### Technical Delegate's Report

#### **Before the third free practice session:**

An engine oil sample was taken from car number 09.

#### **During the third free practice session:**

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

The instantaneous fuel flow of all cars was checked.

#### **Before the qualifying practice session:**

An engine oil sample was taken from car numbers 03 and 27.

It was confirmed for all cars that the gear ratios used during the remainder of this Event belong to the gear ratios declared to the FIA technical delegate at or before the first Event of the 2018 Championship.

The thickness of the brake discs of all cars taking part in the qualifying session was checked.

#### **During the qualifying practice session:**

Car numbers 44, 77, 07, 03, 35, 27, 02, 09 and 16 were weighed.

The weight distribution was checked on car numbers 44, 77, 07, 03, 35, 27, 02, 09 and 16.

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

Fuel samples were taken from car numbers 20 and 02.

**After the qualifying practice session:**

Car numbers 44, 77, 05, 07, 03, 11, 31, 55, 10 and 14 were weighed.

The chassis identification transponders have been confirmed for car numbers 44 and 77.

A front floor deflection test was carried on car numbers 44, 05 and 03.

The flatness of the reference and step plane and their position to each other was checked on car numbers 44, 05 and 03.

The units locking status was checked on car numbers 44, 77, 05, 07, 03, 11, 31, 18, 35, 27, 55, 28, 10, 08, 20, 14, 02, 09 and 16.

The session type has been confirmed for car numbers 44, 77, 05, 07, 03, 11, 31, 18, 35, 27, 55, 28, 10, 08, 20, 14, 02, 09 and 16.

Software version checks have been carried out on car number 44, 77, 05, 07, 03, 11, 31, 18, 35, 27, 55, 28, 10, 08, 20, 14, 02, 09 and 16.

Torque sensor software version checks have been carried out on car number 44, 77, 05, 07, 03, 11, 31, 18, 35, 27, 55, 28, 10, 08, 20, 14, 02, 09 and 16.

Torque sensor calibration checks have been carried out on car numbers 44, 77, 05, 07, 03, 11, 31, 18, 35, 27, 55, 28, 10, 08, 20, 14, 02, 09 and 16.

Chassis FIA checksum was checked on car numbers 44, 77, 05, 07, 03, 11, 31, 18, 35, 27, 55, 28, 10, 08, 20, 14, 02, 09 and 16.

Gear shift data checks have been carried out for car number 07.

The plenum temperature was checked on car numbers 44, 77, 05, 07, 03, 11, 31, 18, 35, 27, 55, 28, 10, 08, 20, 14, 02, 09 and 16.

The oil consumption was checked on car numbers 44, 03, 31, 10, 02 and 09.

The torque coordinator demands were checked on car numbers 44, 07, 03, 11 and 14.

The torque control was checked on car numbers 44, 07, 03, 11 and 14.

The rear brakes pressure control was checked on all car numbers 44, 07, 03, 11 and 14.

The ES state of charge on-track limits were checked on car numbers 44, 77, 05, 07, 03, 11, 31, 18,

35, 27, 55, 28, 10, 08, 20, 14, 02, 09 and 16.

The lap energy release and recovery limits were checked on car numbers 44, 77, 05, 07, 03, 11, 31, 18, 35, 27, 55, 28, 10, 08, 20, 14, 02, 09 and 16.

The MGU-K power limits were checked on car numbers 44, 77, 05, 07, 03, 11, 31, 18, 35, 27, 55, 28, 10, 08, 20, 14, 02, 09 and 16.

The maximum MGU-K torque was checked on car numbers 44, 77, 05, 07, 03, 11, 31, 18, 35, 27, 55, 28, 10, 08, 20, 14, 02, 09 and 16.

The maximum MGU-K speed was checked on car numbers 44, 77, 05, 07, 03, 11, 31, 18, 35, 27, 55, 28, 10, 08, 20, 14, 02, 09 and 16.

The maximum MGU-H speed was checked on car numbers 44, 77, 05, 07, 03, 11, 31, 18, 35, 27, 55, 28, 10, 08, 20, 14, 02, 09 and 16.

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

The fuel temperature of car numbers 44, 77, 05, 07, 03, 11, 31, 18, 35, 27, 55, 28, 10, 08, 20, 14, 02, 09 and 16 was checked.

The instantaneous fuel flow of car numbers 44, 77, 05, 07, 03, 11, 31, 18, 35, 27, 55, 28, 10, 08, 20, 14, 02, 09 and 16 was checked.

Fuel samples were taken from car numbers 77, 03 and 55.

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 Event.

Further the density change of the fuel samples taken today was within the permitted limits.

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 Event.

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

<b>Team</b>	<b>FIA Standard ECU system version</b>
Mercedes	SR1011
Ferrari	SR1011
Red Bull	SR1011
Force India	SR1011
Williams	SR1011
Renault	SR1011
Toro Rosso	SR1010
Haas	SR1011
McLaren	SR1011

Sauber

SR1011

All the above items were found to be in conformity with the 2018 FIA Formula One Technical Regulations.

**Jo Bauer**

**The FIA Formula One Technical Delegate**