

ROLEX 6 HOURS OF SAO PAULO



Round 5. 2024 FIA World Endurance Championship (FIA WEC)



FRIDAY

Free Practice 1

10:45am • (90 minutes)

Free Practice 2

3:15pm • (90 minutes)

SATURDAY

Free Practice 3 10:30am • (60 minutes)

Hypercar Qualifying 3:10pm • (12 minutes)

Hyperpole 3:30pm • (10 minutes) SUNDAY



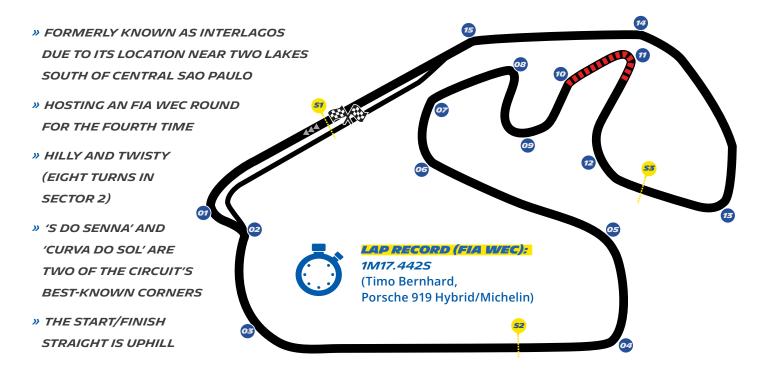
Local time • *SOURCE* : *fiawec.com* - *information subject to change*





THE CIRCUIT

AUTODROMO JOSÉ CARLOS PACE



4.309км

15 TURNS







The FIA WEC's first visit to Sao Paulo in 10 years

19 Hypercar prototypes fielded by 9 different manufacturers, all on Michelin tires



90th FIA WORLD ENDURANCE CHAMPIONSHIP ROUND







MICHELIN'S 6 HOURS OF SAO PAULO RECORD

2012 Wurz/Lapierre (Toyota TS030 Hybrid)

2015 Fässler/Lotterer/Tréluyer (Audi R18 e-tron quattro)

2014 Dumas/Jani/Lieb (Porsche 919 Hybrid)



Three of the winners of the three previous editions of the 6 Hours of Sao Paulo are still active in the FIA WEC's Hypercar class: Nicolas Lapierre (2012 winner with Toyota/Michelin), André Lotterer (2013, Audi/Michelin) and Neel Jani (2014, Porsche/Michelin).















The FIA World Endurance Championship is back in Brazil, 10 years after its last visit to Sao Paulo which Michelin won with Porsche. At 4.309 kilometers in length, Interlagos is the shortest track of the season.

TIRES HAVE

LITTLE

OPPORTUNITY

TO CATCH

THEIR BREATH

It is fast, hilly and twisty, and gives the drivers and their tires little opportunity to catch their breath. That said, the loads tires have to deal with are average. Our engineers estimate that the peak loads on the front and rear tires will be 1,000kg and 1,025kg respectively, through Turn 11. Our partners have a choice between the medium and hard MICHELIN Pilot Sport slick,

plus our rain tire, although the latter probably won't be needed at this time of the year. Expect temperatures to be between 15 and 25°C.

MICHELIN'S FIA WEC RECORD

WITH 6 DIFFERENT MANUFACTURERS
including Toyota (46 wins) and Porsche (18)

WITH 43 DIFFERENT DRIVERS
including Buemi (24 wins), Hartley (21) and Conway (18)

MANUFACTURERS'
WORLD TITLES

11
DRIVERS'
TITLES













SLICKS

Medium (yellow): medium compound / dry conditions / the most versatile option







Hard (red): hard compound / dry conditions / high track temperatures / big constraints





RAIN TIRES

Wet (blue): soft compound / wet conditions / versatile

SLICK ALLOCATIONS

Free Practice	12 tires
Hyperpole	4 tires (medium)
Qualifying + Race	18 tires

SIZES: FRONT: 29/71-18 • REAR: 34/71-18 Width (cm) / Exterior Diameter (cm) – Interior Diameter (inches) The MICHELIN Pilot Sports raced by today's sophisticated Hypercar prototypes were developed on simulators in the space of just months but proved competitive and reliable from the outset. Michelin has since continued to work on its reliable, high-performance range of endurance racing tires in response to the demand for superior longevity inline with Michelin's "Everything Sustainable" plan.

The regulations for the 2024 FIA World Endurance Championship restrict the number of different slick specifications to just two (three for Le Mans), plus a single type of rain tire. Tire warming systems are no longer authorized.

These two parameters have led Michelin Motorsport's engineers to work on the compounds of its slicks to make them even more versatile and enhance their warm-up performance.

Meanwhile, the single type of rain tire needs cover a broad spectrum conditions, from damp and drying, to heavy rain. The resulting solution combines a new tread pattern with greater versatility.

All of the Hypercar prototypes (LMH/LMDh) race on MICHELIN Pilot Sports (front: 29/71-18, rear 34/71-18).

TECHNICAL REQUIREMENTS

Minimum FRONT Stabilized Relative Pressure	1,8b = 26,1psi
Minimum REAR Stabilized Relative Pressure	1,8b = 26,1psi
Maximum FRONT camber at static ride height*	-3,0°
Minimum FRONT camber at static ride height*	-1,0°
Minimum REAR camber at static ride height*	-2,7°
Maximum REAR camber at static ride height*	-1,0°

(*) For example, if the minimum static camber angle is -3°, competitors may run at -2.5° but not at -3.5°













HYPERCAR MICHELIN PARTNERS

19 HYPERCAR PROTOTYPES REPRESENTING 9 MANUFACTURERS





ISOTTA FRASCHINI Isotta Fraschini Tipo6-C (LMH)*









♦ A. SERRAVALLE C. BENNET J-K. VERNAY

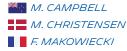


















TOYOTA GAZOO RACING

Toyota GR010 Hybrid (LMH)

















HERTZ TEAM JOTA





HERTZ TEAM JOTA #38 Porsche 963 (LMDh)





























ALPINE ENDURANCE TEAM

Alpine A424 (LMDh)*



S CO

#36

ALPINE ENDURANCE TEAM Alpine A424 (LMDh)*











FERRARI AF CORSE

Ferrari 499P (LMH)





#51

FERRARI AF CORSE Ferrari 499P (LMH)













HYPERCAR MICHELIN PARTNERS

19 HYPERCAR PROTOTYPES REPRESENTING 9 MANUFACTURERS





#83 AF CORSE Ferrari 499P (LMH)































* FIA WEC debut



THE MICHELIN-EQUIPPED HYPERCAR PROTOTYPES

VOITURE	POWER UNIT	POWER	TRANSMISSION
TOYOTA GRO10 HYBRID (LMH)	3.5-liter V6 bi-turbo + Toyota Hybrid System (front wheels)	500kW + 200kW	four-wheel drive, seven-speed Xtrac sequential gearbox
PEUGEOT 9X8 (LMH)	2.5-liter V6 bi-turbo + Peugeot MGU (front wheels)	500kW + 200kW	four-wheel drive, seven-speed Sadev sequential gearbox
FERRARI 499P (LMH)	3-liter V6 bi-turbo + hybrid system (front wheels)	500kW + 200kW	four-wheel drive, seven-speed Xtrac sequential gearbox
ISOTTA FRASCHINI TIPO6-C (LMH)			four-wheel drive, seven-speed Xtrac sequential gearbox
PORSCHE 963 (LMDh)	PORSCHE 963 (LMDh) 4.6-liter V8 bi-turbo + Bosch MGU (rear wheels) CADILLAC V-SERIES.R (LMDh) 5.5-liter V8 + Bosch MGU (rear wheels)		two-wheel drive, seven-speed Xtrac sequential gearbox
			two-wheel drive, seven-speed Xtrac sequential gearbox
ALPINE A424 (LMDh)	3.4-liter V6 turbo + Bosch MGU (rear wheels)	500kW + 50kW	two-wheel drive, seven-speed Xtrac sequential gearbox
BMW M Hybrid V8 (LMDh)	V M Hybrid V8 (LMDh) 4-liter V8 bi-turbo + Bosch MGU (rear wheels)		two-wheel drive, seven-speed Xtrac sequential gearbox
LAMBORGHINI SC63 (LMDh)	3.8-liter V8 bi-turbo + Bosch MGU (rear wheels)	500kW + 50kW	two-wheel drive, seven-speed Xtrac sequential gearbox



HYPERCAR STANDINGS

FIA WORLD ENDURANCE HYPERCAR CHAMPIONSHIP

NA.	ANUFACTURERS		R1 2/03	R2 21/04	R3 11/05	R4 15-16/06	R5	R6 ■■■ 1/09	R7 15/09	R8 2/11	TOTAL
1 st	PORSCHE	<u>Va</u>	39	18	26	25					108
2 nd	FERRARI	V	18	13	18	50					99
3 rd	ТОУОТА	\ @	23	25	12	36					96

DR	RIVERS		R1 2/03	R2 21/04	R3 11/05	R4 15-16/06	R5 ♦ 14/07	R6 1/09	R7 15/09	R8 2/11	TOTAL
1 st	ANDRÉ LOTTERER	_ €	38	18	18	25					99
1 st	KÉVIN ESTRE	_	38	18	18	25					99
1 st	LAURENS VANTHOOR	<u>V</u> e	38	18	18	25					99
2 nd	ANTONIO FUOCO	_2	12	13	15	50					90
2 nd	MIGUEL MOLINA	<u>\</u>	12	13	15	50					90
2 nd	NICKLAS NIELSEN	_	12	13	15	50					90
3 rd	KAMUI KOBAYASHI	V e	15	25	6	36					82
3 rd	NYCK DE VRIES	Le	15	25	6	36					82

ENDURANCE RACING: AN INNOVATION ACCELERATOR FOR MICHELIN

Michelin sees motorsport in general, and endurance racing and the Le Mans 24 Hours in particular, as a means to accelerate innovation. The proportion of renewable or recycled raw materials that go into MICHELIN Pilot Sport endurance-racing rain tires stands at 45 percent.

In 2021, Michelin presented a demonstration tire containing 46 percent recycled or renewable raw materials for the MissionH24 hydrogen fuel-cell racing prototype.

Since last season, the wet rain tires raced by endurance racing's Hypercar prototypes incorporate 45 percent renewable or recycled raw materials.

Motorsport is one of the driving forces behind Groupe Michelin's "Everything Sustainable" plan for 2050.



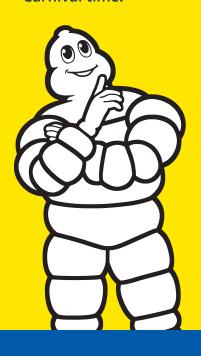






MICHELIN GREEN GUIDE

Brazil (surface area: 8.5 million km2) is the size of a continent. Its exceptionally diverse attractions range from the Amazon. deserted beaches and spectacular waterfalls, to colonial towns and densely-populated megalopolises, all best discovered during Carnival time.



SAO PAULO THE CITY AND CIRCUIT



- » Sao Paulo (population: 22 million) is the world's fourth biggest city (UN estimate, 2018)
- » The circuit is in the city's southern suburban sprawl

- » It is called Autodromo José Carlos Pace in memory of the 1975 Brazilian GP winner who died in 1977
- » The circuit is still largely known by its original name Interlagos, the result of its location between two artificial lakes (Guarapiranga and Billings)
- » The first race to be held there was the Grande Premio Cidade de Sao Paulo, in 1940
- » After frequent previous modifications, the circuit's current layout dates back to the 1990s
- » Ayrton Senna's resting place in Morumbi Cemetery is 12km from the circuit. The Brazilian only won twice in F1 at Interlagos

MICHELIN MOTORSPORT AND SAO PAULO



» Michelin has scored three F1 polepositions and three grand prix wins at Interlagos

- » Michelin won at Interlagos with René Arnoux and Renault in 1980
- » Twenty years ago, Michelin won the Brazilian Grand Prix with Juan-Pablo Montoya (Williams)
- » It was at Interlagos, in 2012, that Toyota and Michelin collected their first FIA WEC victory together
- » Michelin has won FIA WEC races at Interlagos with Toyota, Audi and Porsche
- » In 2007, Michelin won the Sao Paulo Mil Milhas (Le Mans Series) with Minassian/Gené (Peugeot 908 HDi FAP)





WHAT'S NEW IN *2024*

CLASSES

Only two classes: Hypercar and LMGT3

The Hypercar class covers LMH (hybrid and non-hybrid) and LMDh (hybrid) prototypes

LMH prototypes: Toyota GR010 Hybrid, Peugeot 9X8, Ferrari 499P, Isotta Fraschini Tipo6-C

LMDh prototypes: Porsche 963, Cadillac V-Series.R, Alpine A424, BMW M V8 Hybrid, Lamborghini SC63

VENUES

2 new venues:

Lusail (Qatar), Imola (Italy)

2 returning venues:

Sao Paulo (Brazil), COTA (USA)

QUALIFYING

New format,

with two sessions per class: Qualifying (12 minutes), followed by a Hyperpole shootout, featuring the 10 fastest cars from Qualifying (10 minutes)

2024 CALENDAR

R1

QATAR 1812 KM

(Qatar, Lusail)

March 2



6 HOURS OF IMOLA



April 21



6 HOURS OF SPA-**FRANCORCHAMPS**

(Belgium)

May 11



LE MANS 24 HOURS (France)

June 15-16



6 HOURS OF SAO PAULO



(Brazil) July 14

LONE STAR LE MANS

R6 (Texas, USA)

September 1

R7

6 HOURS OF FUJI



(Japan) September 15



8 HOURS OF BAHRAIN



(Sakhir) November 2

FIA WEC TIRE REGULATIONS

SPECIFICATIONS

Number for dry	Number of specifications		
Le Mans 24 Hours	Other races	Total over the season	for wet- weather tires
3	2	3	1

Two slick specifications for the season for all cars, to be registered 48 hours before the Prologue Test. For individual races, two of the three specifications to be nominated 48 hours at the latest prior to the start of scrutineering (three specifications for Le Mans).

ALLOCATIONS

a	*	Qualifying + Race						
Free	Hyperpole	6-hour races	10-hour races*					
12	4	18	26	32				

(*) Or of 1812km.

(**) Only the softest tire proposed by the tire manufacturer for this competition will be used for Hyperpole.

- The tire manufacturer must establish identical technical requirements (pressure and camber) for all the Competitors. The non-respect of these requirements by the Competitors may be penalized by the Panel of the Stewards.
- For 29/34 tires: a random draw will be made per Competition and tires will be reattributed randomly to each Competitor by the Technical Delegates. These tires must be used in the "Qualifying + Race" allocation. The details will be defined by the WEC Committee.
- For 31/31 tires: a mechanism of collection and reintroduction of the tires will be defined by the WEC Committee.
- -The WEC Committee will be able to modify the random attribution mechanism and the tire collection and reintroduction mechanism at any moment during the season.
- To go from the pit lane to the starting grid before the start of the race, the tires used can be either dry-weather tires or wet-weather tires and will not be counted in the allocation.

HYPERPOLE

Michelin to select the compound for use in the Hyperpole sessions

The choice of compound for this session will be specified by Michelin, with all 10 cars contesting the shootout on the same type of tire. The four covers employed will be supplied in addition to the competitor's basic allocation but they may not be used for the race itself. Instead, the Hyperpole tires will be retrieved at the end of the session and will be made available to Michelin's partners for private testing at a later date.

RAIN TIRES

The number of wet-weather tires usable during a Competition is not limited. During practices and the race, wet-weather tires can only be used once the track has been declared wet by the Clerk of the Course / Race Director.

Any chemical and/or mechanical treatment of the tires is prohibited, except for the removal of debris collected on the track.

The tread and profile of the tires must not be modified or recut.

Any process that involves a direct or indirect attempt at modifying the temperature of a tire (compared to the ambient temperature) is forbidden.

Use of storage tents in designated areas is permitted only if they are always ventilated with ambient air and accessible.

Infringement of the tire allowance: Stop & Go of 2 minutes per tire.

Infringement of the tire heating rules: Stop & Go of 3 minutes during the race.

Four mechanics and two tire guns allowed for wheel changes during pit stops. Wheel changes are only allowed when the car is not being refueled.

Only one tire technician is allowed to measure tire temperatures and pressures.

Tire changes may only be carried out on the starting grid up to the fiveminute board, in front of the garage or inside the garage if significant work is being undertaken on the car, on the track in the case of a suspension of the

Each tire must be identified by RFID and barcode. All references must be declared to the Technical Delegate at least 48 hours before the start of the Competition.











From left to right: the MICHELIN Pilot Sport Endurance (for the World Championship's Hypercars), MICHELIN Pilot Sport^s S and MICHELIN Pilot Sport^s

MICHELIN PILOT SPORT

The MICHELIN Pilot Sport is unbeaten in the FIA World Endurance Championship since 2012. Benefit from the grip and precision delivered by the MICHELIN Pilot Sport range of road tires!

#PerformanceMadeToLast #WeRaceForChange

FUITSU Z

