



# RACEGUIDE

2021 LE MANS 24 HOURS

24h  
LE MANS



# LE MANS 24 HOURS

ROUND 4 • 2021 FIA WORLD ENDURANCE CHAMPIONSHIP (FIA WEC)

89<sup>th</sup> RUNNING

62 ENTRIES

LE MANS (FRANCE)



AUGUST 21-22



#LeMans24 #PerformanceMadeToLast #MichelinLeMans24



# THE 2021 LE MANS 24 HOURS

24h  
LE MANS



**WATCH OUR INTERVIEW  
WITH PIERRE ALVES**  
Endurance Racing Program Manager  
Michelin Motorsport



*"For the first time, the Le Mans 24 Hours is being held in August, so we can expect hotter weather compared with the traditional mid-June date. Records suggest an average of 26°C instead of 23°C. There will also be two extra hours of darkness than in June.*

*"For Michelin Motorsport, this year's race is uncharted territory. Our new Pilot Sport hypercar range has only ever lapped Le Mans on the simulator, because there is no opportunity to test around the full 13.626-kilometer track away from race week.*

*"We are nonetheless confident because the performance of these new tires at the early FIA WEC rounds at Spa-Francorchamps, Portimao and Monza corresponded with our estimates at the end of the design and development phase which was entirely done virtually.*

**FOR MICHELIN  
MOTORSPORT,  
THIS YEAR'S RACE IS  
UNCHARTED TERRITORY**

*"This is the first time that both the cars and their tires have been developed by computer in parallel. A year ago, the MICHELIN Pilot Sport and Toyota and Glickenhaus hypercars only existed in virtual form! This technological feat by Michelin Motorsport's engineers and their Michelin Technology Center colleagues not only saved time but also divided costs and the quantity of materials required by four, thereby reducing the development phase's environmental footprint."*



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# THE CIRCUIT

## LE MANS 24 HOURS

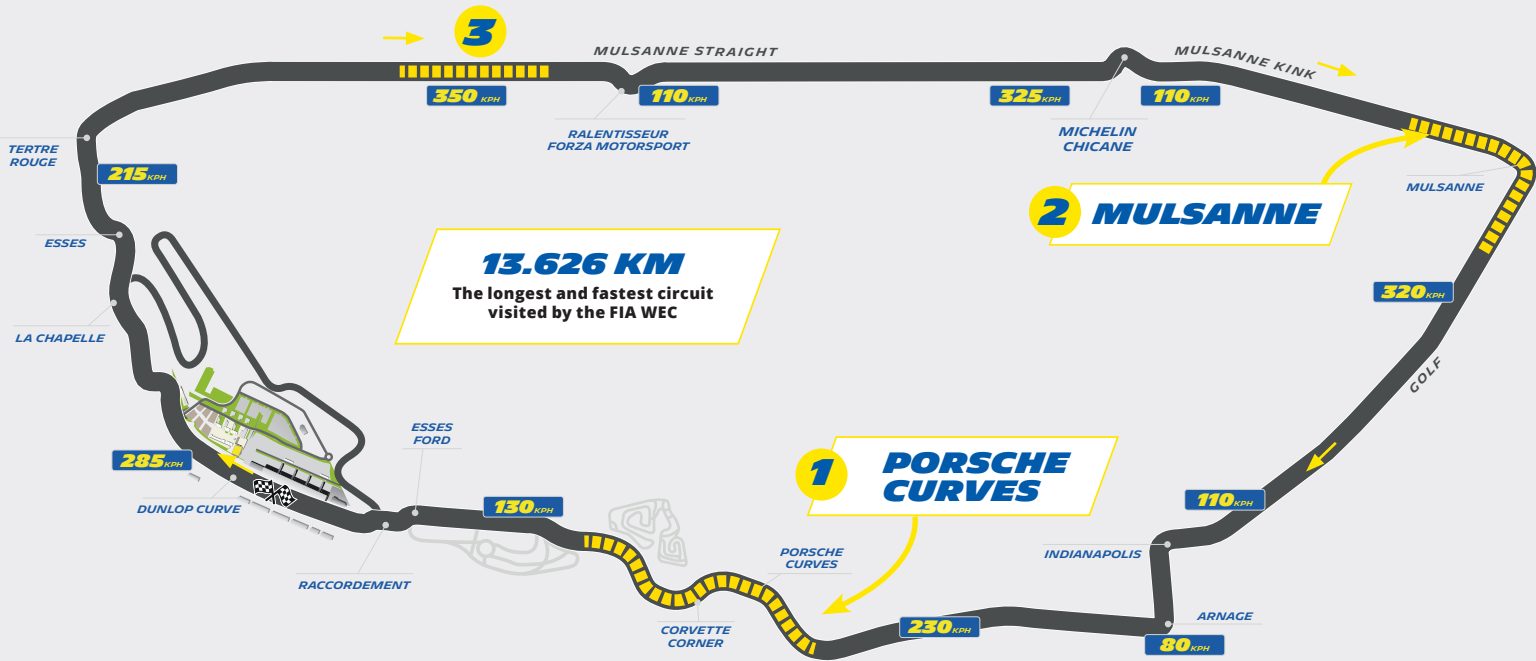
24h  
LE MANS



Fifteenth different track layout since 1923

38  
TURNS

CLOCKWISE



**13.626 KM**  
The longest and fastest circuit visited by the FIA WEC

**1 PORSCHE CURVES**

**2 MULSANNE**

### FEATURES

A non-permanent circuit: 50 percent of the track is open to ordinary traffic the rest of the year

Cars are slowed along the 5.750km-long Mulsanne Straight by two chicanes



#### TRACK LAP RECORD:

Kamui Kobayashi  
(Toyota/Michelin)  
3m15.267s (in 2020)

#### RACE LAP RECORD:

Mike Conway (Toyota/Michelin)  
3m17.297s (in 2019)

### FEATURES



Going into the Porsche Curves, the MICHELIN Pilot Sport tires that equip the hypercars are subjected to a **lateral force of 3g** for five seconds at 240kph, equivalent to them being pulled outwards by a mass of 1,200kg



The fastest prototypes brake for the Mulsanne Turn from **310kph to 93kph**, shedding 200kph in the space of just 200 meters and four seconds. As a result, their MICHELIN Pilot Sport tires need to dissipate **500 Joules**, the amount of energy required to halt a 38-tonne truck travelling at 50kph



When the cars reach their top speed of around 350kph, their MICHELIN Pilot Sports become oval in shape as their diameter increases by as much as 5cm. This is countered by the aerodynamic downforce that pushes the tires against the ground



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# THE 2021 LE MANS 24 HOURS



## TIMETABLE

SUNDAY, AUGUST 15	
10:00am-1:00pm	Test Day
3:00pm-8:00pm	Test Day
WEDNESDAY, AUGUST 18	
2:00pm-5:00pm	Free Practice 1
7:00pm-8:00pm	Qualifying
10:00pm-midnight	Free Practice 2
THURSDAY, AUGUST 19	
2:00pm-5:00pm	Free Practice 3
9:00pm-9:30pm	Hyperpole
10:00pm-midnight	Free Practice 4
SATURDAY, AUGUST 21	
11:30am-11:45am	Warm-up
4:00pm	<b>START, LE MANS 24 HOURS</b>

Postponed from the 89<sup>th</sup> race's initially-planned date (June 12-13) due to Covid-19 restrictions

Being held in August for the first time

Up to 50,000 spectators authorized

The race to start at 4pm (official starter: Ferrari President, John Elkann)

During pit stops, tires may only be changed once refueling has been completed, so keeping the same set saves time

First appearance of the new-generation hypercars at Le Mans

The six fastest cars in each class in qualifying go on to contest the Hyperpole shootout



CHECK OUT OUR LE MANS  
24 HOURS **PREVIEW**



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# MICHELIN'S TIRES FOR LE MANS

## HYPERCAR



**SLICKS**  
"SOFT COLD" / "SOFT HOT"  
MEDIUM



**INTERMEDIATE**



**WET**  
DRYING WET  
AND FULL WET

## MICHELIN PILOT SPORT

### SLICKS

**Soft cold:** for non-abrasive track surfaces, low temperatures (less than 15°C) or at night.

**Soft hot:** for average-wearing or 'rubbered' track surfaces, temperatures in excess of 15°C (core range tyre).

**Medium:** abrasive track surfaces, demanding track configurations, temperatures in excess of 30°C.

### INTERMEDIATES

Patterned tread for use on a damp track, or when the conditions differ around the circuit

### WET-WEATHER TIRES

The wet-weather tire can be 're-cut' to convert it into a Full Wet depending on the amount of water that needs to be cleared

### LE MANS 24 HOURS TIRE SIZES

SLICK SOFT COLD, SOFT HOT, MEDIUM	INTERMEDIATE	DRYING WET	FULL WET
31/71-18	31/71-18	31/71-18	31/71-18
Glickenhau: Front: 29/71-18 and Rear: 34/71-18			

width (cm) / exterior diameter (cm) x interior diameter (inches).

### TIRE QUOTAS

Free practice, qualifying, warm-up	Hyperpole	Race
24 tires (6 sets)	8 tires	48 tires

### WET TRACK

Intermediate	Wet	Full Wet

## HYPERCARS PARTNERS

N°7	TOYOTA GAZOO RACING	Toyota GR010 Hybrid	CONWAY/KOBAYASHI/LOPEZ	
N°8	TOYOTA GAZOO RACING	Toyota GR010 Hybrid	BUEMI/NAKAJIMA/HARTLEY	
N°36	ALPINE ELF MATMUT	Alpine A480-Gibson	NEGRAO/LAPIERRE/VAXIVIÈRE	
N°708	GLICKENHAUS RACING	Glickenhau 007 LMH	DERANI/MAILLEUX/PLA	
N°709	GLICKENHAUS RACING	Glickenhau 007 LMH	BRISCOE/WESTBROOK/DUMAS	

### MICHELIN STATISTIC

The MICHELIN Pilot Sport tires that equip the new-generation hypercar prototypes were designed and developed entirely using CAD and simulators. The process not only halved the development lead-time required (10 months) but also divided the costs involved and the quantity of materials required by four to obtain an even smaller environmental footprint.



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# MICHELIN'S TIRES FOR LE MANS

**LM GTE PRO**

**LM GTE AM**

## MICHELIN PILOT SPORT

### SLICKS

**Soft:** temperatures less than 20°C (e.g. at night at Le Mans). The soft slick delivers the same stability and consistency as the medium slick.

**Medium:** core range tyre, temperatures between 15 and 35°C.

**Medium hot:** for abrasive track surfaces and/or temperatures in excess of 30°C.

### RAIN TIRES

**'Drying' Wets and Full Wets:** a broad operating window and the same tread pattern, but a different construction.



### TIRE SIZES

SLICKS Soft / Medium / 'Medium Hot'	RAIN Drying Wets / Full Wets
Front: 30/68-18 Rear: 31/71-18	Front: 30/68-18 Rear: 31/71-18

Width (cm) / exterior diameter (cm) x interior diameter (inches).

### TIRE QUOTAS

Free practice, qualifying, warm-up	Hyperpole	Race
28 tires (7 sets)	8 tires	60 tires

### WET TRACK

Drying Wet	Full Wet



## FIA WEC TIRE REGULATIONS

### SLICK TIRES

#### HYPERCARS:

Three types of slick for the season for all the cars / 2 types of slick to be nominated 48 hours before the Prologue test / 2 types of slick for each race (from the above 3) to be nominated 48 hours before the start of scrutineering (3 types of slick for Le Mans).

#### LM GTE Pro and LM GTE Am:

Three types of slick per model for the season / 2 types of slick to be nominated 48 hours before the Prologue test / 1 additional type of slick can be registered in the course of the season / 2 types of slick for each race (from the above 3) to be nominated 48 hours before the start of scrutineering (3 types of slick for Le Mans).

### RAIN TIRES

Can only be used if Race Control declares the track to be wet (free practice, qualifying, race). No quotas per race.

**HYPERCARS:** 1 type of intermediate tire and 1 type of rain tire for the season for all cars entered 48 hours before the Prologue. The re-cutting of tread patterns is not authorised.

**LM GTE Am:** 1 type of intermediate tire and 1 type of rain tire per model entered 48 hours before the Prologue. The re-cutting of tread patterns is not authorised.

During the course of the season, a competitor may change tire brand no more than once.

**Penalty:** a 3-minute Stop&Go penalty for tire regulation breaches

**A maximum of 4 mechanics and 2 tire guns** for wheel changes during pit stops. A car's tires may only be changed once it has been refuelled.

**1 tire technician** is authorised to carry out a visual inspection of the tires and check their pressures.

**Tire changes** are only authorised a) on the grid up to the three-minute board, b) in front of the car's garage during a pit stop or inside the garage in the case of longer work on the car, c) on the track if the race is suspended.

**Tires are identified by RFID** chips and bar codes. All tire serial numbers must be communicated to the Technical Delegates 48 hours in advance.



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# THE 2021 LE MANS 24 HOURS
























**LM GTE PRO**

**LM GTE AM**

## LM GTE PRO **PARTNERS**

<b>N°51</b>	<b>AF CORSE</b>	Ferrari 488 GTE Evo	<b>PIER GUIDI/CALADO/LEDOGAR</b>	
<b>N°52</b>	<b>AF CORSE</b>	Ferrari 488 GTE Evo	<b>SERRA/MOLINA/RIGON</b>	
<b>N°63</b>	<b>CORVETTE RACING</b>	Corvette C8.R	<b>GARCIA/TAYLOR/CATSBURG</b>	
<b>N°64</b>	<b>CORVETTE RACING</b>	Corvette C8.R	<b>MILNER/TANDY/SIMS</b>	
<b>N°72</b>	<b>HUB AUTO RACING</b>	Porsche 911 RSR-19	<b>KOVALAINEN/CASSIDY/VANTHOOR</b>	
<b>N°79</b>	<b>WEATHERTECH RACING</b>	Porsche 911 RSR-19	<b>MACNEIL/BAMBER/VANTHOOR</b>	
<b>N°91</b>	<b>PORSCHE GT TEAM</b>	Porsche 911 RSR-19	<b>BRUNI/LIETZ/MAKOWIECKI</b>	
<b>N°92</b>	<b>PORSCHE GT TEAM</b>	Porsche 911 RSR-19	<b>ESTRE/JANI/CHRISTENSEN</b>	

## LM GTE AM **PARTNERS**

<b>N°18</b>	<b>ABSOLUTE RACING</b>	Porsche 911 RSR-19	<b>HARYANTO/PICARIELLO/SEEFRIED</b>	
<b>N°33</b>	<b>TF SPORT</b>	Aston Martin Vantage AMR	<b>KEATING/PEREIRA/FRAGA</b>	
<b>N°46</b>	<b>TEAM PROJECT 1</b>	Porsche 911 RSR-19	<b>OLSEN/BUCHARDT/FOLEY</b>	
<b>N°47</b>	<b>CETILAR RACING</b>	Ferrari 488 GTE Evo	<b>LACORTE/SERNAGIOTTO/FUOCO</b>	
<b>N°54</b>	<b>AF CORSE</b>	Ferrari 488 GTE Evo	<b>FLOHR/CASTELLACCI/FISICHELLA</b>	
<b>N°55</b>	<b>SPIRIT OF RACE</b>	Ferrari 488 GTE Evo	<b>CAMERON/SCOTT/GRIFFIN</b>	
<b>N°56</b>	<b>TEAM PROJECT 1</b>	Porsche 911 RSR-19	<b>PERFETTI/CAIROLI/PERA</b>	
<b>N°57</b>	<b>KESSEL RACING</b>	Ferrari 488 GTE Evo	<b>KIMURA/ANDREWS/JENSEN</b>	
<b>N°60</b>	<b>IRON LYNX</b>	Ferrari 488 GTE Evo	<b>SCHIAVONI/RUBERTI/GIAMMARIA</b>	
<b>N°66</b>	<b>JMW MOTORSPORT</b>	Ferrari 488 GTE Evo	<b>NEUBAUER/SALES/FANNIN</b>	
<b>N°69</b>	<b>HERBERTH MOTORSPORT</b>	Ferrari 488 GTE Evo	<b>RENAUER/BOHN/INEICHEN</b>	
<b>N°71</b>	<b>INCEPTION RACING</b>	Ferrari 488 GTE Evo	<b>IRIBE/MILLROY/BARNICOAT</b>	
<b>N°77</b>	<b>DEMPSEY-PROTON RACING</b>	Porsche 911 RSR-19	<b>RIED/EVANS/CAMPBELL</b>	
<b>N°80</b>	<b>IRON LYNX</b>	Ferrari 488 GTE Evo	<b>CRESSONI/MASTRONARDI/PICCINI</b>	
<b>N°83</b>	<b>AF CORSE</b>	Ferrari 488 GTE Evo	<b>PERRODO/NIELSEN/ROVERA</b>	
<b>N°85</b>	<b>IRON LYNX</b>	Ferrari 488 GTE Evo	<b>FREY/BOVY/GATTING</b>	
<b>N°86</b>	<b>GR RACING</b>	Porsche 911 RSR-19	<b>WAINWRIGHT/BARKER/GAMBLE</b>	
<b>N°88</b>	<b>DEMPSEY-PROTON RACING</b>	Porsche 911 RSR-19	<b>ANDLAUER/BASTIEN/ARNOLD</b>	
<b>N°95</b>	<b>TF SPORT</b>	Aston Martin Vantage AMR	<b>HARTSHORNE/HANCOCK/GUN</b>	
<b>N°98</b>	<b>ASTON MARTIN RACING</b>	Aston Martin Vantage AMR	<b>DALLA LANA/FARFUS/GOMES</b>	
<b>N°99</b>	<b>PROTON COMPETITION</b>	Porsche 911 RSR-19	<b>TINCKNELL/INTHRAPHUVASAK/LATORRE</b>	
<b>N°388</b>	<b>RINALDI RACING</b>	Ferrari 488 GTE Evo	<b>EHRET/HOOK/LEEKEMOLEN</b>	
<b>N°777</b>	<b>D'STATION RACING</b>	Aston Martin Vantage AMR	<b>HOSHINO/FUJII/WATSON</b>	



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# LE MANS 24 HOURS 2020 RESULTS

24h  
LE MANS



## TOP SPEED

**Louis Deletraz**  
(Rebellion R13-Gibson/  
Michelin), 349kph

## BEST RACE LAP

**Bruno Senna**  
(Rebellion R13-Gibson/  
Michelin), 3m19.264s  
(246.2kph)

Spectators not allowed  
to attend for the first  
time since 1923

Third straight win for  
Toyota and Michelin

Last Le Mans  
24 Hours of the LMP1  
Prototype era

Gustavo Menezes  
performed a quintuple  
stint (750km at  
an average speed  
of 239kph) in the  
MICHELIN Pilot Sport-  
equipped Rebellion  
R13-Gibson

Victory for Michelin-  
equipped cars in all  
four classes (LMP1/  
LMP2/LMGTE Pro/  
LMGTE Am)



## WINNERS:

**Buemi/Nakajima/Hartley**  
(Toyota TS050 Hybrid/Michelin),  
387 laps - 5,272.46km  
Average speed: 219.4kph



## POLE POSITION

**Kamui Kobayashi**  
(Toyota TS050 Hybrid/Michelin)  
3m15.267s (251.2kph)



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## MICHELIN LE MANS HIGHLIGHTS

### 1923: FIRST LE MANS 24 HOURS AND MICHELIN'S FIRST WIN



On May 26, 1923, a field of 33 cars set off in pouring rain to contest the very first Le Mans 24 Hours, known at the time as the Grand Prix d'Endurance de 24 Heures. The race featured a 17-kilometre dirt circuit and produced a one-two finish for Chenard & Walcker/Michelin, led by the Lagache/Léonard car which averaged 92kph. Only three cars failed to finish.

### 2010: NEW DISTANCE RECORD...

The 2010 Le Mans 24 Hours saw Michelin and Audi establish a new distance record at Le Mans, with Rockenfeller/Dumas/Bernhard's Audi R15 TDi completing 5,410.713km (397 laps). The former record (5,335km) dated back to 1971 when the circuit layout was much faster. Michelin also holds the LMP2, LMGT Pro and Am distance records.



### 2011: QUINTUPLE STINT ON SAME TIRES CLINCHES VICTORY

In 2011, the N°2 Audi R18 TDI/Michelin won Le Mans by a margin of just 13.854 seconds after Benoît Tréluyer chose to go out for a fifth stint on the same set of tires following the car's final pit stop. The 30 or so seconds saved by not changing his Michelins allowed the Frenchman to shrug off the late pressure applied by a trio of charging Peugeot 908 HDIs to the finish line!



### 2017: NEW AVERAGE-SPEED RECORD FOR ONE LAP



Japan's Kamui Kobayashi established a new record for Le Mans when qualifying his Toyota TS050 Hybrid/Michelin for the 2017 race. His pole-winning time of 3m14.791s equated to an average speed of 251.88kph, making it the fastest lap ever clocked in La Sarthe. The previous record dated back to 1985 (251.81kph). The 2017 race also saw Michelin post new lap records in LMP2, LMGT Pro and LMGT Am.

### 2018: THE EQUIVALENT OF MORE THAN TWO F1 GRANDS PRIX ON A SINGLE SET OF TIRES



In 2018, the 2009 F1 world champion Jenson Button covered 55 laps (750km) at an average speed of more than 220kph on the same set of Michelin tires in his BR1-AER LMP1 prototype. That's equivalent to contesting more than two F1 grands prix without changing tires. Button posted the fastest lap of his quintuple stint (average speed: 242kph) 30th time around, 400km into his landmark run.



### 23 CONSECUTIVE WINS A RECORD

Michelin holds the record for the longest unbroken winning spell at Le Mans (23 victories since 1998). In the course of this ongoing run, the French manufacturer has had to adapt its range frequently as a function of shifting technical regulations and technologies employed by the successive cars. The record for the highest number of Le Mans wins is currently held by Dunlop (34), ahead of Michelin (28) and Goodyear (14).

## MICHELIN'S LONGSTANDING COMMITMENT TO LE MANS

The Le Mans 24 Hours has stood out as a unique challenge for drivers, cars and tires since 1923. The interminable, uncompromising and complex race is contested at an unrelenting pace that puts the spotlight very much on tire longevity.

Le Mans is a major fixture for Michelin which prepares meticulously for the annual classic. To stand a chance of winning calls for tires that are capable of exceeding 350kph and covering 700-plus kilometers at an average speed of 220kph. They also need to deliver consistent performance from the start to finish of every stint and be sufficiently versatile to take sudden weather changes around the entire circuit – or just part of it – in their stride.

Michelin has gone unbeaten at Le Mans since 1998 by constantly modifying the

specification of its tires to keep pace with changes to the technical regulations and cars.

For 2021, Michelin Motorsport and the Michelin Technology Center joined forces to design a new range of MICHELIN Pilot Sports for the latest hypercar prototypes. These tires were conceived and developed virtually using CAD and simulator technology at the same time as the cars themselves were taking form.

In addition to halving the development lead-time, this process reduced costs and the quantity of materials employed by four to reduce the phase's environmental footprint.

The agility and speed-of-response demonstrated by Michelin Motorsport's staff in racing in general and at Le Mans in particular has become a driving force within the Michelin Group in terms of simulation and innovation, thereby facilitating the transfer of technology from racing to road tires.

**29**

Michelin victories

**83**

podium finishes

**30**

pole positions

### MICHELIN GREEN GUIDES

Discover the myriad delights France has to offer, from the Loire Valley chateaux, Paris and the French Riviera to Brittany, the Alps and innumerable other attractions with the Michelin Green Guide collection.



### LE MANS AND THE LE MANS REGION

- Le Mans is the capital of France's Sarthe department and has a population of approximately 150,000
- Le Mans Old Town is historically associated with the Plantagenets
- Le Mans sits at the confluence of the Sarthe and Huisne rivers
- Places to visit in and around Le Mans include Epau Abbey, Saint Julien's Cathedral, les Quinconces des Jacobins, the Old Town and the Tessé Museum
- The Le Mans region is within striking distance of many famous Loire Valley Châteaux, like Chenonceau, Chambord, Blois, Amboise, Azay-le-Rideau, etc.

<b>2020</b>	<b>Nakajima/Buemi/Hartley</b> Toyota TS050 Hybrid
<b>2019</b>	<b>Nakajima/Buemi/Alonso</b> Toyota TS050 Hybrid
<b>2018</b>	<b>Buemi/Nakajima/Alonso</b> Toyota TS050 Hybrid
<b>2017</b>	<b>Bernhard/Hartley/Bamber</b> Porsche 919 Hybrid
<b>2016</b>	<b>Jani/Lieb/Dumas</b> Porsche 919 Hybrid
<b>2015</b>	<b>Hulkenberg/Bamber/Tandy</b> Porsche 919 Hybrid
<b>2014</b>	<b>Tréluyer/Fassler/Lotterer</b> Audi R18 e-tron quattro
<b>2013</b>	<b>Kristensen/McNish/Duval</b> Audi R18 e-tron quattro
<b>2012</b>	<b>Tréluyer/Fassler/Lotterer</b> Audi R18 e-tron quattro
<b>2011</b>	<b>Tréluyer/Fassler/Lotterer</b> Audi R18 TDi
<b>2010</b>	<b>Dumas/Bernhard/Rockenfeller</b> Audi R15 TDi
<b>2009</b>	<b>Brabham/Gené/Wurz</b> Peugeot 908 HDi FAP
<b>2008</b>	<b>Capello/Kristensen/McNish</b> Audi R10 TDi
<b>2007</b>	<b>Biela/Pirro/Werner</b> Audi R10 TDi
<b>2006</b>	<b>Biela/Pirro/Werner</b> Audi R10 TDi
<b>2005</b>	<b>Kristensen/Lehto/Werner</b> Audi R8
<b>2004</b>	<b>Kristensen/Ara/Capello</b> Audi R8
<b>2003</b>	<b>Kristensen/Capello/Smith</b> Bentley Speed 8
<b>2002</b>	<b>Biela/Kristensen/Pirro</b> Audi R8
<b>2001</b>	<b>Biela/Kristensen/Pirro</b> Audi R8
<b>2000</b>	<b>Biela/Kristensen/Pirro</b> Audi R8
<b>1999</b>	<b>Winkelhock/Martini/Dalmas</b> BMW V12 LMR
<b>1998</b>	<b>McNish/Aiello/Ortelli</b> Porsche 911 GT1
<b>1995</b>	<b>Dalmas/Lehto/Sekiya</b> McLaren F1 GTR
<b>1993</b>	<b>Brabham/Bouchut/Hélary</b> Peugeot 905
<b>1992</b>	<b>Warwick/Dalmas/Blundell</b> Peugeot 905
<b>1989</b>	<b>Mass/Dickens/Reuter</b> Sauber C9-Mercedes-Benz
<b>1978</b>	<b>Pironi/Jaussaud</b> Renault-Alpine A442b
<b>1923</b>	<b>Lagache/Léonard</b> Chenard & Walcker Sport

# MICHELIN AND LE MANS 24 HOURS

24h  
LE MANS



## MICHELIN RECORDS AT LE MANS



**23**

The highest number of consecutive wins

**97**

The number of years separating Michelin's first and most recent Le Mans wins

**251.88KPH**

Fastest ever average lap speed

**5,410.713KM**

Distance record over 24 hours

**225.22KPH**

Highest average speed over 24 hours

**54**

The highest number of cars to contest Le Mans on Michelin rubber (2020)

**8**

The highest number of Le Mans wins with the same driver (Tom Kristensen)

**5**

The highest number of wins with the same car (Audi R8)

**15**

The highest number of overall places at the finish monopolized by cars equipped by the same tire manufacture

**30**

The highest number of pole positions

## MICHELIN AND LE MANS LANDMARK DATES

### **1923: MICHELIN WINS INAUGURAL LE MANS**

Michelin wins the very first edition of the Le Mans 24 Hours with André Lagache and René Leonard driving a Chenard & Walcker. They completed the race at an average speed of more than 92kph around the original 17-kilometre circuit.

### **1967: SLICKS**

Michelin innovates by introducing the first radial slicks to contest the Le Mans 24 Hours, fitted to an Alpine-Renault A210.

### **1978: AN ALL-FRENCH VICTORY**

Victory for Didier Pironi and Jean-Pierre Jaussaud in a Renault-Alpine A442B on Michelin tires.

### **1989: A MICHELIN ONE-TWO**

Michelin takes a one-two finish with the Sauber-Mercedes of Mass/Reuter/Dickens and Baldi/Acheson/Brancatelli.

### **1993: MICHELIN LOCKS OUT THE PODIUM**

Peugeot and Michelin monopolized the podium with the 905 (winners: Brabham/Bouchut/Hélary).

### **1999: A MICHELIN TOP-FOUR**

Michelin dominates the race to earn a one-two-three-four finish in association with BMW, Toyota and two Audis. It also secures top spot in the GTS class with Chrysler.

### **2000: FIRST WIN FOR AUDI-MICHELIN**

Michelin and its partner Audi score a one-two-three finish in La Sarthe, with the win going to Kristensen/Biela/Pirro.

### **2003: BENTLEY-MICHELIN, 79 YEARS LATER**

Two years after returning to endurance racing, Bentley scores a one-two finish and its fifth overall win, 79 years after the last. Michelin tops every class.

### **2006: THE FIRST DIESEL WIN AT LE MANS**

Audi achieves success with diesel technology at Le Mans on Michelin tires developed specifically to deal with the high forces generated by the R10 TDI prototypes.

### **2007: TEN IN A ROW FOR MICHELIN**

Michelin takes victory for the tenth consecutive year at Le Mans. It's the French manufacturer's 16th win at the legendary race.

### **2009: PEUGEOT-MICHELIN: 16 YEARS LATER**

Peugeot and Michelin secure a one-two finish at Le Mans, 16 years after their last success together in 1993. Michelin once again wins all four classes and locks out the top 15 positions in the overall standings.

### **2010: ONE-TWO-THREE FOR AUDI-MICHELIN**

The three works Audi R15 TDIs lock out the podium

to notch up a ninth Le Mans victory for the Audi-Michelin partnership. The N°9 Audi sets a new distance record after covering 5,410.71km on just 11 sets of tires!

### **2011: 20TH MICHELIN VICTORY AT LE MANS**

Michelin celebrates its 20th victory (its 14th in a row) at Le Mans and shares a tenth success with its partner Audi. The winning N°9 Audi completes five consecutive stints on the same Michelin tires.

### **2012: FIRST LE MANS SUCCESS FOR HYBRID POWER**

Michelin secures its 15th straight win at Le Mans with the Audi R18 e-tron quattro. The Michelin-equipped car goes down in history as the first hybrid prototype (diesel/electricity) to win the French race. First Le Mans appearance for the Michelin Hybrid, a slick intermediate tire.

### **2015: PORSCHE-MICHELIN BACK ON TOP**

Seventeen years after their last victory together at the Circuit de la Sarthe, Porsche and Michelin win the 2015 race with the 'third' Hybrid 919 in the hands of Le Mans novices Nico Hülkenberg, Earl Bamber and Nick Tandy. It is Michelin's 24th victory at the famous French race.

### **2016: A MEMORABLE START AND FINISH!**

For the first time, the Le Mans 24 Hours starts behind a Safety Car following a heavy shower moments before the start. While leading, the N°5 Toyota suffers a cruel mechanical problem during the race's penultimate lap which hands victory to the N°2 Porsche 919 Hybrid/Michelin of Marc Lieb, Neel Jani and Romain Dumas.

### **2017: PORSCHE/MICHELIN WINS BUT TWO LM P2 CARS ON THE PODIUM**

Once again, Toyota comes close to winning the Le Mans 24 Hours but glory escapes it yet again. Victory ends up in Porsche's hands for the third year running, while second and third places go to LM P2 prototypes.

### **2018: TOYOTA/MICHELIN'S FIRST LE MANS SUCCESS**

Toyota celebrates its 20th attempt at the Le Mans 24 Hours with a one-two finish for the TS050 Hybrid/Michelin. First Le Mans win for F1 star Fernando Alonso.

### **2019: A MICHELIN GRAND SLAM**

Michelin wins all four classes (LMP1, LMP2, LMGTE Pro, LMGTE Am) for the first time since 2010.

### **2020: NO SPECTATORS**

Toyota and Michelin make it three wins in a row in front of empty grandstands due to the Covid-19 pandemic. Another grand-slam performance for Michelin whose partners top all four classes.



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# MICHELIN'S LE MANS LOGISTICS

Around 7,000 MICHELIN Pilot Sports are available at Le Mans for the 36 Michelin-equipped cars entered for this year's race. They are trucked to the track ahead of the pre-race Test Day, after which stocks are replenished by a further 800 or so covers on the Tuesday of race week. This plan optimizes logistical costs and necessitates three fewer semi-trailer return trips. The resulting CO<sub>2</sub> saving exceeds 600kg.



**200**

Some 200 different components are required to make the 20 semi-finished assemblies necessary for the manufacture of each MICHELIN Pilot Sport

**30 MINUTES**

MICHELIN Pilot Sport tires are made by hand. The process takes around 30 minutes, plus a further 20 minutes for them to be cured at 180°C

**6,500**

Each MICHELIN Pilot Sport rotates 6,500 times during a single lap of Le Mans

**130°C**

The running temperature of a MICHELIN Pilot Sport slick can reach as high as 130°C

**350KPH**

At 350kph, the diameter a MICHELIN Pilot Sport tire increases by 5cm

**6CM**

MICHELIN Pilot Sport slicks undergo a lateral deformation of 6cm through the Porsche Curves

**100**


A MICHELIN Pilot Sport can withstand a mass of 100 times its own weight, equivalent to a family hatchback like the Toyota Yaris

**120 LITERS**

At 200kph, MICHELIN Pilot Sport rain tires can clear 120 liters of water every second. That equates to 240,000 liters per lap of Le Mans and the contents of an Olympic swimming pool over an 11-lap stint

**1231 KM**

In 2008, a set of MICHELIN Pilot Sport rain tires completed 1,231km on an Aston Martin Vantage



## MICHELIN'S FACILITIES AT LE MANS

Tires taken to the circuit: approximately **7,000**

Workshop space: 800 square meters  
Storage space: 900 square meters

**1,700sq.m**

**36**  
36 of the 62 cars entered on Michelin tires

**54** Fitting staff

**39** Technicians and engineers



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