

LE MANS 24 HOURS

Round 4 2024 FIA World Endurance Championship (FIA WEC)

92TH EDITION







'CE : fiawec.com - information subject to change

TIMETABLE

RIDAY, JUNE 7
Scrutineering and documentation
TURDAY, JUNE 8
Scrutineering and documentation
UNDAY, JUNE 9
Le Mans 24 Hours (Test)
Ligier European Series (Race)
Le Mans 24 Hours (Test)
IESDAY, JUNE 11
Pit-walk and autograph session
Pits visit
Pit-Stop Challenge
ONESDAY, JUNE 12
Road to Le Mans (Free Practice 1)
Le Mans 24 Hours (Free Practice 1)
Le Mans 24 Hours (Qualifying)
Road to Le Mans (Free Practice 2)
Le Mans 24 Hours (Free Practice 2)
URSDAY, JUNE 13
Road to Le Mans (Qualifying 1)
Road to Le Mans (Qualifying 2)
Le Mans 24 Hours (Free Practice 3)
Road to Le Mans (Race 1)
Le Mans 24 Hours (Hyperpole)
Le Mans 24 Hours (Free Practice 4)
RIDAY, JUNE 14
Track open to public
Drivers' Parade (Le Mans city center)
TURDAY, JUNE 15
Road to Le Mans (Race 2)
Le Mans 24 Hours (Warm-up)
- 11111
Grid Walk



THE 2024 RACE



All of the 23 Hypercar prototypes representing nine different makes racing at Le Mans this year are fitted with Michelin tires

Le Mans debuts for the BMW, Alpine, Lamborghini, Isotta Fraschini and Peugeot 9X8 Evo Hypercars

Like last year, the 2024 Le Mans 24 Hours is a tickets-only event

Tire warmers are no longer authorized for the Le Mans 24 Hours

The eight fastest cars in qualifying will go forward to the Hyperpole shootout session

During pit stops, tires may only be changed once refueling has been completed. Staying on the same set consequently saves time

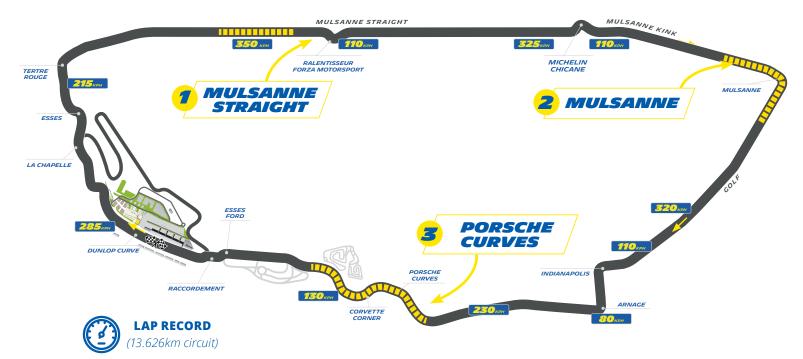
The Michelin '71'-equipped H24
hydrogen prototype, the Alpine
Alpenglow Hy4 hydrogen concept
car and the Ligier JS2 RH2 hydrogen
prototype will perform parade laps
prior to the start of this year's Le
Mans 24 Hours

Michelin is a partner of the Ligier European Series and Road to Le Mans support races





THE CIRCUIT 21 MICHELIN PREMIUM PARTNER



3m15.267s

(Kamui Kobayashi, Toyota TS050 Hybrid/Michelin, 2020)

Average speed: 251.20kph

13.626KM

33 TURNS



FEATURES

The longest and fastest circuit visited by the 2024 FIA WEC

Non-permanent: 50 percent of the circuit is open to ordinary traffic the rest of the year

The surfaces of the track's permanent and non-permanent sections are different

Two chicanes slow the cars along the 5.750km

Mulsanne Straight

The Porsche Curves 3
(Turns 23 to 27) form a
particularly challenging sequence
of high-speed turns

MICHELIN PILOT SPORT TIRE DATA AT LE MANS

When the prototypes are at their fastest (around 340kph down the Mulsanne Straight), their MICHELIN Pilot Sports become oval due to centrifugal force which can increase their diameter by as much as 1.4cm. The phenomenon is countered by the aerodynamic downforce exerted on the car.

Braking for Mulsanne 2, the Hypercars slow from 315 to 90kph, shedding 200kph in just 200 meters and four seconds. Each MICHELIN Pilot Sport has to dissipate 4,000 kilojoules of energy in the process.

Entering the Porsche Turns 3, each MICHELIN Pilot Sport is submitted to a lateral force of 2.8g for a duration of four seconds at a speed of around 240kph. Lateral deformation can reach 5cm.

During a single lap of Le Mans (13.626km), each MICHELIN Pilot Sport rotates 6,500 times.





LE MANS 24 HOURS THE 2023 RACE LEMANS.









WINNERS:

Pier Guidi/Calado/Giovinazzi (Ferrari 499P/Michelin), 342 laps (4,659.40km) at an average speed of 194.1kph







TOP SPEED:

Miguel Molina

(Ferrari 499P/ Michelin), 347.8kph

FASTEST RACE LAP:

Antonio Fuoco

(Ferrari 499P/ Michelin), 3m27.218s (236kph)

A winning return to the premier class at Le Mans for Ferrari, 50 years after its previous victory there

Ferrari's 10th Le Mans win

The centenary Le Mans attracted a crowd of 325,000 despite the mixed weather

> Michelin's 26th consecutive Le Mans victory

Plenty of excitement with no fewer than 40 leader changes

Developed using simulator technology alone, the MICHELIN **Pilot Sport tire range** successfully triple-stinted (500km)

The LMGTE class's final appearance at Le Mans saw Corvette/Michelin take the category win







MICHELIN Pilot Sport The Hypercar which range, was developed entirely using simulation technology, is racing at Le Mans for the second year running, but the context is different this time around. We know the track and our tires perfectly, of course, but tire warmers have now been banned. It will therefore be

the driver's job to get them up to their working temperature after every change. Depending on the compound, the time required to do this will vary from just a few turns in the case of the soft, to a little longer for the medium and perhaps an entire lap or more with the hard, depending on the style of driving. Our technicians will naturally be on-hand to advise the teams, but we already know that the best

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solution will be to stay on the same tires as long as possible. Given their longevity and consistency, we expect many of the teams will run quadruple stints at least. It is also possible they won't change all four tires at the same time. Since the beginning of this season, and as a function of the characteristics of the different circuits, we have seen several examples of them doing

this. We've also seen that mixing compound-types can be a winning strategy. When you change just two tires instead of four, there's the time-saving factor, too, of course. Whatever the tactics chosen, we are extremely proud of our tyres and can't wait for the start of the world's greatest endurance race which Michelin has won 32 times, including an ongoing sequence of 26 victories in a row.



MICHELIN'S FIA WEC RECORD

WITH 6 DIFFERENT MAKES
including Toyota (46 wins) and Porsche (19)
WITH 43 DIFFERENT DRIVERS
including Buemi (24 wins), Hartley (21) and Conway (18)











sophisticated Hypercar prototypes were developed on simulators in the space of just months. 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 to cover a broad spectrum of conditions, from damp and drying, to heavy rain. The resulting solution combines a 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).

MICHELIN PILOT SPORT TRIVIA

LOTIN NITE

Around 200 different 'ingredients' go into the 20 semi-finished assemblies that make up each MICHELIN Pilot Sport.

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**.

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

A MICHELIN Pilot Sport can withstand a mass of **100 times** its own weight, equivalent to a family hatchback like the Renault Clio.

At 200kph, MICHELIN Pilot Sport rain tires can clear up to **120 liters** of water every second. That equates to **28,000 liters** per lap of Le Mans, or a million liters over the course of three stints.

The MICHELIN Pilot Sport tires that race at Le Mans were developed entirely virtually in just **10 months.**





THE MICHELIN PILOT SPORT RANGE

CUSTOMER RACING MICHELIN PILOT SPORTS

In addition to the 23 Hypercars contesting the 2024 Le Mans 24 Hours on Michelin rubber, Michelin is also the exclusive supplier to the 58 participants (40 LMP3 prototypes + 18 GT3 cars) contesting the Road to Le Mans, as well as to the 32 contestants in the Ligier European Series. These cars are fitted with S9M/S8M and P2L tires from Michelin's Customer Racing range.s Customer Racing range.







to save five minutes over the race's duration,

equivalent to more than a complete lap!







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 + Qualifying	24 tires
Hyperpole	8 tires
Race	56 tires

SIZES: FRONT: 29/71-18 • REAR: 34/71-18

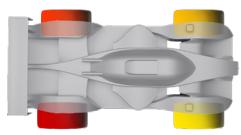
Width (cm) / Exterior Diameter (cm) – Interior Diameter (inches)

TECHNICAL REQUIREMENTS

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

ENERGY LEVEL PER TIRE



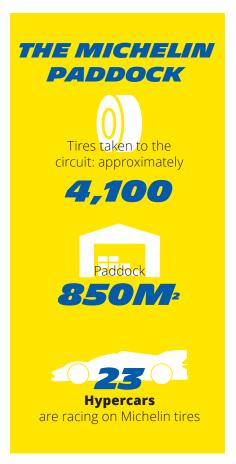




MICHELIN'S LE MANS LOGISTICS

Approximately 4,100 MICHELIN Pilot Sports are available for the 23 Michelinequipped cars entered for this year's Test Day and Le Mans 24 Hours race. The Monday after the Test Day, the tires that are used during the session (around 400) are returned to Clermont-Ferrand where they are replaced by the same number which arrive at Le Mans on the Tuesday of race week. This plan optimizes logistical costs and reduces Michelin's environmental impact.





MICHELIN MOTORSPORT'S STAFF AT LE MANS



Fitters

Fitters comprise the bulk of Michelin Motorsport's personnel at Le Mans where they fit, balance and remove tires on one of the workshop's three lines. In the course of Le Mans week, they fit more than 4,100 Michelin tires. Order forms from partner teams are received via a bespoke application. The 54 fitters work in shifts during the race.

Technicians

The role of Michelin Motorsport's Technical Team Advisors delegated to work its partner teams (at least one per team) includes advising on tire usage and management of the teams' tire quotas. It also covers attending technical briefings with the teams' own engineers and drivers to assist with tire choices and tire-pressure recommendations. Their input can be decisive.

Developers

The development experts behind Michelin's Hypercar range attend the race to monitor tire performance, make sure that Michelin's usage recommendations are adhered to as a function of the cars' set-ups and respond swiftly in case of any issues. They contribute to the job of inspecting the tires that come off the cars after the early stints in order to see how the different plies performed in

order to possibly authorize triple or even quadruple stints.

Performance analysts

These engineers permanently monitor tire and car performance using the data and graphs provided by Michelin's partner teams. They check that the real-time data corresponds with the forecasts obtained during simulation work upstream of the race

Tire analysts

Tire analysts section the tires that come off the cars to check that the different plies (crown, casing, sidewalls) and materials performed correctly. As a function of their findings, the developers decide whether the number of stints cars stay out on the same tires can be increased, and provide the teams' engineers and technicians with usage and set-up recommendations.





HYPERCAR MICHELIN PARTNERS

23 HYPER PROTOTYPES REPRESENTING 9 MANUFACTURERS













* Débuts en catégorie Hypercar en FIA WEC en 2024





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HYPERCAR MICHELIN PARTNERS

23 HYPER PROTOTYPES REPRESENTING 9 MANUFACTURERS





* Débuts en catégorie Hypercar en FIA WEC en 2024







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)	V6 turbo + MGU (front wheels)	500kW + 200kW	four-wheel drive, seven-speed Xtrac sequential gearbox
PORSCHE 963 (LMDh)	4.6-liter V8 bi-turbo + Bosch MGU (rear wheels)	500kW + 50kW	two-wheel drive, seven-speed Xtrac sequential gearbox
CADILLAC V-SERIES.R (LMDh)	5.5-liter V8 + Bosch MGU (rear wheels)	500kW + 50kW	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)	4-liter V8 bi-turbo + Bosch MGU (rear wheels)	477kW + 50kW	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

MA	ANUFACTURERS		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	PORSCHE	V	39	18	26						83
2 nd	ТОУОТА	1	23	25	12						60
3 rd	FERRARI	_e	18	13	18						49

DR	RIVERS		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	ANDRÉ LOTTERER	<u>_</u>	38	18	18						74
1 st	KÉVIN ESTRE	_ @	38	18	18						74
1 st	LAURENS VANTHOOR	<u>_</u> 2	38	18	18						74
2 nd	CALLUM ILOTT	<u>~</u>	27	0	25						27
2 nd	WILL STEVENS	<u>\</u> 2	27	0	25						27
3 rd	KAMUI KOBAYASHI	_	15	25	6						46
3 rd	MIKE CONWAY	W	15	25	6						46
3 rd	NYCK DE VRIES	_ @	15	25	6						46

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/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/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/recycled raw materials.

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



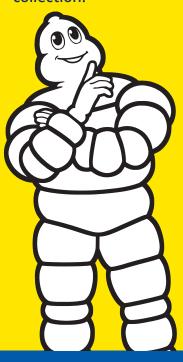






MICHELIN GREEN GUIDES

Discover the countless delights France has to offer, from the Loire Valley chateaux, Paris, the Alps, Basque country and the French Riviera to Brittany, the Riviera, the Massif-Central and innumerable other attractions with the Michelin Green Guide collection.



MICHELINAND THE LE MANS REGION



- » Le Mans is the capital of France's Sarthe administrative department and has a population of approximately 150,000. The greater Le Mans region has a population of around 350,000.
- » Le Mans Old Town is historically associated with the Plantagenet royal lineage. It is surrounded by a red Gallo-Roman stone wall.
- » Le Mans sits at the confluence of the Sarthe and Huisne rivers.
- » Le Mans used to be known for its wax, silk and leather industries.
- » Le Mans hosted the first-ever French Grand Prix, in 1906 and its first 24-hour race in 1923. It was also home of France's first series-produced motor car La Mancelle in 1878.
- » Places to visit in and around Le Mans include Epau Abbey, Saint Julien's Cathedral, Plantagenet heritage sites, les Quinconces des Jacobins, the Old Town and the Tessé Museum.
- » The Le Mans region is within striking distance of many famous Loire Valley chateaux, such as Chenonceau, Chambord, Blois, Amboise, Azay-le-Rideau, etc.





MICHELIN / 2





MICHELIN LE MANS

ANNIVERSARIES



10 YEARS AGO...

The 2014 race saw Tréluyer/Lotterer/ Fässler claim their third Le Mans victory. Audi took its score to 13 wins on Michelin tires, while Porsche returned to the headlining class as a factory team, with Michelin. Michelin also provided the tires for Nissan's futuristic ZEOD RC prototype.

20 YEARS AGO...

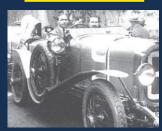
The Audi Sport Japan Team Goh-run Audi R8 of Ara/Capello/Kristensen took the win, ahead of the similar Team Veloqx (UK) and ADT Champion (USA) cars. Michelin monopolized the top six places overall and claimed both the GTS and GT classes with Corvette and Porsche respectively.

50 YEARS AGO...

In 1974, Michelin topped the GTS class at Le Mans with the Ferrari 365 GTB/4 of Grandet/Bardini. They came fifth overall and also claimed the Energy Index prize.

MICHELIN LE MANS HIGHLIGHTS

1923: MICHELIN CLAIMS INAUGURAL E MANS 24 HOURS



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-kilometer dirt circuit and produced a onetwo finish for Chenard & Walcker/Michelin, led by the Lagache/Léonard car which averaged 92kph. Only three cars failed to finish.

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, LMGTE Pro and Am distance records.

A DECISIVE FIFTH STINT **CLINCHES 2011 WIN BY** 13 SECONDS!

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!

NEW AVERAGE-SPEED RECORD



Japan's Kamui Kobavashi established a new record for Le Mans when qualifying his Toyota TS050 Hybrid/Michelin for the 2017 race. His polewinning 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, LMGTE Pro and LMGTE Am.

MORE THAN TWO F1 **GRANDS PRIX ON THE** SAME FOUR 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.

26 CONSECUTIVE WINS -A RECORD

Michelin holds the record for the longest unbroken winning spell at Le Mans (26 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 total number of Le Mans wins is currently held by Dunlop (34), ahead of Michelin (32) and Goodyear (14).

A HYDROGEN PROTOTYPE AND SUSTAINABLE TIRES

As part of the build-up to the 2022 Le Mans 24 Hours, and in keeping with Michelin's commitment to more sustainable, lowcarbon motorsport, the hydrogen-fueled H24 prototype completed a lap of the circuit on Michelin tires that contained 53 percent recycled and renewable raw materials. The 2024 race will see Michelin reveal a genuine racing tire that contains 71 percent recycled/renewable raw materials!













LANDMARK DATES MICHELIN AND LE MANS





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-kilometer circuit.

1951: MICHELIN RETURNS TO LE MANS

Michelin returns to Le Mans with radial tires for a Lancia Aurelia B20GT. In addition to topping its class, the car came 12th overall after completing 3,000km on the same set of tires.

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

1993: MICHELIN LOCKS OUT THE PODIUM

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

1999: A MICHELIN TOP-FOU

Michelin dominates the race to earn a onetwo-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-twothree 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

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

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 Michelinequipped 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 TOPSeventeen 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 P CARS ON THE PODIUI

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

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 for classes.

2021: MICHELIN'S 24TH STRAIGHT WIN

Michelin extends its unbeaten run at Le Mans to 24 victories since 1998. Its brand new tires for the Hypercar entries help Toyota and its GR010 Hybrid claim the first race of the race's Hypercar era.

2022: 5 IN-A-ROW FOR TOYOTA

Toyota/Michelin claims its fifth straight Le Mans victory. Porsche and Michelin wins the last LMGTE Pro race at the Le Mans 24 Hours, establishing a new distance-record (4,769km) in the process.

2023: FERRARI'S WINNING RETURN, WITH MICHELIN

Making its return to Le Mans 50 years after its last win, Ferrari won the race's centenary edition with its 499P Hypercar on Michelin tires. Michelin also celebrated the final appearance of LMGTE cars by claiming the LMGTE Am victory with Corvette













MICHELIN AND LE MANS







26

The highest number of consecutive wins (since 1998)

251.88KPH

Fastest ever average speed over one lap (with Toyota, in 2017)

5.410.713KM

Distance record over 24 hours (with Audi, in 2010)

225.22KPH

Fastest average speed over 24 hours (with Audi, in 2010)

54

The highest number of cars to contest Le Mans on Michelin rubber (91% of the entry, in 2020)

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

The most wins by the same car (Audi R8)

15

The highest number of overall places at the finish monopolized by cars equipped by the same tire manufacture (2009)

33

The highest number of pole positions (since 1963)

MICHELIN'S LE MANS RECORD



(including an unbeaten run of 26 wins since 1998)



podiums



pole positions

2023	Pier Guidi/Calado/Giovinazzi
	Ferrari 199P

Buemi/Hartley/Hirakawa Toyota GR010 Hybrid

2021 Conway/Kobayashi/Lopez

Toyota GR010 HYBRID

Nakajima/Buemi/Hartley Toyota TS050 Hybrid

Nakajima/Buemi/Alonso Toyota TS050 Hybrid

Buemi/Nakajima/Alonso 2018 Toyota TS050 Hybrid

2017 Bernhard/Hartley/Bamber Porsche 919 Hybrid

Jani/Lieb/Dumas Porsche 919 Hybrid

Hulkenberg/Bamber/Tandy Porsche 919 Hybrid

Tréluyer/Fassler/Lotterer Audi R18 e-tron quattro

Kristensen/McNish/Duval Audi R18 e-tron quattro

Tréluyer/Fassler/Lotterer Audi R18 e-tron quattro

Audi R18 TDi

Dumas/Bernhard/Rockenfeller 2010 Audi R15 TDi

Tréluyer/Fassler/Lotterer

2009 Brabham/Gené/Wurz Peugeot 908 HDi FAP

2011

Capello/Kristensen/McNish Audi R10 TDi

2007 Biela/Pirro/Werner Audi R10 TDi

Biela/Pirro/Werner Audi R10 TDi

Kristensen/Lehto/Werner Audi R8

2004 Kristensen/Ara/Capello Audi R8

Kristensen/Capello/Smith Bentley Speed 8

2002 Biela/Kristensen/Pirro Audi R8

2001 Biela/Kristensen/Pirro Audi R8

Biela/Kristensen/Pirro Audi R8

Winkelhock/Martini/Dalmas BMW V12 LMR

McNish/Aïello/Ortelli Porsche 911 GT1

Dalmas/Lehto/Sekiya McLaren F1 GTR

1993 Brabham/Bouchut/Hélary Peugeot 905

Warwick/Dalmas/Blundell Peugeot 905

Mass/Dickens/Reuter *1989* Sauber C9-Mercedes-Benz

Pironi/Jaussaud 1978 Renault-Alpine A442b

1923 Lagache/Léonard Chenard & Walcker Sport













MICHELIN'S ENVIRONMENTAL COMMITMENT

Michelin sees endurance racing - and the Le Mans 24 Hours in particular - as an accelerator of innovation in its quest for increasingly environmentally-respectful raw materials and technologies that contribute to the Group's 'Everything Sustainable' target by 2050.

The entry for this year's Le Mans 24 Hours features 23 prototypes representing nine car manufacturers in the headlining Hypercar class, for which Michelin has developed a range of specific tires.

The use of CAD and simulator technology enabled Michelin to halve the time necessary for the development of these new tires, while slashing the cost of the process and the quantity of materials required by 75 percent. The longevity of Michelin's tires has long enabled its partners to run double, triple and even quadruple stints with a view to saving time during pit stops, with no detriment to performance. This, too, has contributed to reducing the firm's environmental footprint at Le Mans over the years, since fewer tires raced means fewer tires to manufacture, ship and recycle, not to mention smaller quantities of raw materials.

Working in favor of sustainable mobility is central to the partnerships Michelin strikes in motorsport. In 2021, it revealed a new demonstration enduranceracing tire that contained 46 percent recycled and renewable raw materials. Three years on, that figure has been raised to 71 percent in the case of the tires for the H24 hydrogen prototype. Meanwhile, today's MICHELIN Pilot Sport Wets for the Hypercars contain 45 percent recycled/renewable materials.

The nature of motorsport may be evolving, but it continues to enable Michelin to accelerate the emergence of innovations aimed at helping the Group to meet its







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:

Losail (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, Losail)

March 2



6 HOURS OF IMOLA

(Italy)

April 21



6 HOURS OF SPA-FRANCORCHAMPS

(Belgium)

(Texas, USA)

(Japan)

May 11



LE MANS 24 HOURS

(France)

June 15-16

September 1

September 15



6 HOURS OF SAO PAULO



(Brazil) July 14

R6

LONE STAR LE MANS



6 HOURS OF FUJI





8 HOURS OF BAHRAIN



November 2

FIA WEC TIRE REGULATIONS

SPECIFICATIONS

Number for dry	of speci -weath	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

Free Practice + Qualifying	Hyperpole**	Race
24	8	56

(*) 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.
- 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.
- Tyres used for the warm up will not be considered

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.





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

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

