



ExxonMobil reveals next generation Mobil 1 RB16B Engine Oil upgrade for Red Bull Racing Honda

- The innovative fully synthetic Mobil 1 RB16B Engine Oil can help maximise efficiency and protection for Red Bull Racing Honda Formula 1 Team.
- The cutting-edge, high-performance engine oil is developed specifically for the RB16B Honda engine and incorporates new thinking and technologies for Mobil 1 lubrication.

07 June 2021, Houston, USA: Mobil 1 has developed a breakthrough engine oil in collaboration with Honda Research and Development and Red Bull Racing Honda. The new Mobil 1 RB16B Engine Oil is designed specifically for the new Honda power unit, helping deliver maximum power without compromising protection and fuel efficiency. The result of a multi-year research program to improve on the high standards set by the current Mobil 1 used by the Red Bull Racing Honda team.

The new Mobil 1 RB16B Engine Oil can withstand extreme temperatures and pressure, helping the Honda engine excel across a wider range of operating conditions. The new Mobil 1 oil meets tougher requirements from the new Honda PU with its improved temperature performance and creating less deposits.

Red Bull Racing Honda can in turn utilise these benefits to allow improvements to the aerodynamics of the car with more efficient packaging. In combination with an optimized fuel, the technology behind this new Mobil 1 RB16B engine oil has delivered peak fuel efficiency results as measured by brake specific fuel consumption and brake thermal efficiency in external engine testing (results referenced in a peer-reviewed SAE Technical Paper¹).

In designing this innovative formulation, ExxonMobil evaluated non-traditional lubricant components in pursuit of break-through performance. As an example, materials from the cosmetics industry were incorporated to enhance the product's protective properties. The complex formulation is a careful balance of materials each designed to deliver specific performance benefits including more than 25% bio-sourced content and low ash additive chemistry.

ExxonMobil Global Motorsports Technology Manager, Tomek Young, explains: "Our development philosophy was to maximise power and efficiency in the new generation of Honda engines. With this in mind, we, alongside our Honda and Red Bull Racing Honda colleagues created a formula of oil that was previously unachievable using conventional approaches.

¹ <https://saemobilus.sae.org/content/2021-01-0462/>

“The innovative Mobil 1 RB16B Engine Oil formulation contains unique ingredients that enhance the protective film at the surface of the metal parts, helping to protect the engine from damage caused by heat and wear. The new oil helps to keep the engine running at peak efficiency across a wider range of conditions, which can make a positive difference to the RB16B speed and acceleration.

“ExxonMobil is proud to have played our part in Sergio Perez’s maiden victory with the team and commiserations to Max Verstappen who had to retire after the leading the race for so long.”

Paul Monaghan, Red Bull Racing Honda Chief Engineer, Car Engineering, said: *“Special thanks must go to Mobil 1 for continuing to innovate and push for marginal gains. Our performance in Baku was thanks to each and every area of our car package working together, including Mobil 1’s latest engine oil upgrade that was introduced to the RB16B’s of Max and Sergio at the weekend. Our Technical Partnerships with ExxonMobil and Honda play a significant role in contributing towards our on-track performances and Mobil 1’s oil upgrade, alongside the wider fuel and lubrication package, help continue to deliver efficiency and reliability gains for the Team. “*

Ahead of the 2021 season, ExxonMobil developed a new Esso Synergy Race Fuel upgrade in collaboration with Red Bull Racing Honda and Honda Research and Development. Fuel efficiency, engine cleanliness and protection along with reliability is important on and off the track, and combined with the new Mobil 1™ RB16B Engine Oil upgrade enables maximum efficiency and performance in the new Red Bull Racing Honda race car.

The fuel efficiency and reliability needs of Formula 1 racing teams are fundamentally similar to those of customers around the world. Mobil engine oils, gear oils, hydraulic fluids, and greases as well as Exxon, Esso and Mobil fuels can help meet customers’ needs for efficiency, performance and protection.

ExxonMobil race engineers will monitor engine oil consistency and quality over the course of the Formula 1 season at the ExxonMobil Tracklab - a state-of-the-art mobile laboratory that provides critical data to improve the Mobil 1™ RB16B Engine Oil and Esso Synergy Race Fuel. Their continued learnings from motorsport’s ultimate proving ground are incorporated into select Mobil products and shared with consumers around the world.

To find out more about ExxonMobil’s Technical Partnership with Red Bull Racing Honda, head to the ExxonMobil’s Virtual Grandstand: <https://vg.mobil1motorsport.com/>.

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About Mobil 1 in Motorsports

Racing provides the Mobil brand the ultimate testing ground to improve the technology in our range of oils and lubricants. Through each race season, our advanced products go to work in race cars to help improve their performance and efficiency. Mobil 1™ motor oils serve as the lubricant of choice for many of the world’s top race teams who compete in the most demanding and popular motorsports series in the world. The knowledge we gain through these collaborations is integral to how our scientists and engineers develop technologies and constantly push the boundaries. For more information, visit: www.mobil1.com.

About Mobil 1

The world's leading synthetic motor oil brand, Mobil 1 features anti-wear technology that provides performance beyond our conventional motor oils. This technology allows Mobil 1 to meet or exceed the toughest standards of car builders and to provide exceptional protection against engine wear, under normal or even some of the most extreme conditions. Mobil 1 flows quickly in extreme temperatures to protect critical engine parts and is designed to maximise engine performance and help extend engine life.

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