Mobil 1™, the world’s leading synthetic motor oil brand, has long been the lubricant of choice for race teams competing in motorsports series across the globe. Its technology is relied on for its ability to deliver exceptional all-round performance and protection under extreme operating conditions.

**Mobil 1 Products Available Include:**

- Engine Oils
- Gear Oils for Transmission, Transaxle and Rear End Gear Applications
- Automatic Transmission Fluid for Transmissions and Power Steering Systems
- Greases for Wheel Bearings, Tripod Joints, Spline Shafts and Swivel Joints

Mobil 1 Racing™ oils exploit many core performance attributes found in Mobil 1 oil technology that are directly beneficial to racing engine performance, such as outstanding high temperature wear and deposit protection in turbocharger bearings.

These race-proven products are the result of extensive testing and development in a wide range of race series including:

- NASCAR Monster Energy Cup Series™
- NASCAR Xfinity Series™
- NASCAR Camping World Truck Series™
- NASCAR Whelen All-American Series™
- Formula 1™
- ARCA Racing Series™
- IMSA WeatherTech SportsCar Championship™
- FIA World Endurance Championship™
- FIA World Rally Championship
- World of Outlaws Sprint Car Series™
- World of Outlaws Late Model Series™
- Formula DRIFT
- Virgin Australia Supercars Championship

**Selecting a Racing Oil**

**Key Considerations:**

- **Wear Protection:** Engine configuration should dictate whether a high zinc oil is needed or not. Select an oil which offers maximum protection.
- **Temperature Range:** Select an engine oil based on the operating race engine temperature for the best engine film thickness to protect your engine.
- **Protection Against Deposits:** Not all race oils offer the detergency and other additive content to protect against deposits. Deposits insulate against the cooling properties of the engine oil and can shorten engine life and lower performance and efficiency.
- **Viscosity Grade:** Select the viscosity grade which best suits the application and provides the best combination of power and protection. A wider viscosity range oil such as a 0W-50 is better suited for all around temperature and race performance.

**Mobil 1 Racing Oil Advantages:**

- Double the zinc for protection in extreme racing conditions.
- **Advanced fully synthetic proprietary base oil technology.**
- Protection against high temperatures and deposits.
- Friction reduction to deliver increased horsepower.
- Detergent technology provides excellent engine component cleanliness.
- Offered in two viscosity ranges for a variety of racing applications: Mobil 1 Racing™ 0W-30 and Mobil 1 Racing™ 0W-50.
Mobil 1 Racing™
0W–50

Key Features

- Recommended for higher temperature and durability racing applications.
- Boosted levels of anti-wear protection (nominal zinc level of 1850 ppm) well beyond those of typical automotive engine oils.
- Highly friction modified for maximum power.
- Recommended for a wide range of race engine applications, including highly loaded flat tappet designs.
- Exceptional high-temperature protection in high RPM engine operation, even at temperatures of over 500°F (260°C).

Provides maximum protection and durability under higher temperatures. Perfectly suited for short oval track racing to long-duration road racing.

Mobil 1 Racing™
0W–30

Key Features

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- Boosted levels of anti-wear protection (nominal zinc level of 1850 ppm) well beyond those of typical automotive engine oils.
- Recommended for a wide range of race engine applications, including highly loaded flat tappet designs.
- Exceptional high-temperature protection in high RPM engine operation, even at temperatures of over 500°F (260°C).

A very low friction racing oil developed for a wide variety of race engines and is recommended and used by builders of engines for NASCAR and ARCA series.

Understanding Oil Viscosity and Zinc

Viscosity

Viscosity refers to the weight and thickness of a motor oil. Motor oil gets thicker when it’s cold and thinner when it heats up.

- The first number (i.e. 0W-50) indicates the viscosity of the oil at a cold temperature (40°C or 104°F).
- The second number (i.e. 0W-30) indicates the viscosity at operating temperatures (100°C or 212°F).

While some racers see the “0W” and think this oil would be too light, in fact Mobil 1 Racing 0W-30 and 0W-50 are the same weight at operating temperatures as other SAE 30 and 50 grade oils.

Mobil 1 Nominal Zinc Level

Mobil 1 Racing oils are designed to help protect an engine at lower temperature as well as providing excellent protection and durability at operating or race temperatures. The wider viscosity range is designed give more efficiency which can potentially result in better fuel economy and increased horsepower.

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<table>
<thead>
<tr>
<th>Product</th>
<th>SKU #</th>
<th>Nominal Phosphorus Level, PPM</th>
<th>Nominal Zinc Level, PPM</th>
<th>Product Description</th>
<th>Recommended consumer applications</th>
<th>APL, ILSAC, and other industry approvals</th>
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</thead>
<tbody>
<tr>
<td>Mobil Racing™ 0W-30</td>
<td>Case - 102622</td>
<td>1750</td>
<td>1850</td>
<td>Advanced full synthetic formula specifically designed to maximize horsepower under race conditions.</td>
<td>Race engines.</td>
<td>-</td>
</tr>
<tr>
<td>Mobil Racing™ 0W-50</td>
<td>Case - 104145</td>
<td>1750</td>
<td>1850</td>
<td>Advanced full synthetic formula specifically designed to maximize horsepower under race conditions.</td>
<td>Race engines.</td>
<td>-</td>
</tr>
<tr>
<td>Mobil 1™ 5W-20</td>
<td>Case - 102991</td>
<td>800</td>
<td>900</td>
<td>Advanced full synthetic formulation designed to meet the requirements of many newer vehicles including Hondas, Fords, Chryslers and newer Toyotas.</td>
<td>Vehicles that require 5W-20.</td>
<td>GF-5, SN</td>
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<tr>
<td>Mobil 1™ 5W-30</td>
<td>Case - 102911</td>
<td>800</td>
<td>900</td>
<td>Advanced full synthetic formulation designed to meet the requirements of many domestic, including GM, and imported vehicles.</td>
<td>Vehicles that require 5W-30. Corvette approved.</td>
<td>GF-5, SN Honda</td>
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<tr>
<td>Mobil 1™ 10W-30</td>
<td>Case - 102992</td>
<td>800</td>
<td>900</td>
<td>Advanced full synthetic formula designed for domestics and imports.</td>
<td>Vehicles that require 10W-30.</td>
<td>GF-5, SN</td>
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<tr>
<td>Mobil 1™ FS X2 5W-50</td>
<td>Case - 112628</td>
<td>1000</td>
<td>1100</td>
<td>Higher Viscosity, advanced full synthetic formula designed for performance vehicles.</td>
<td>Porsche. HT/HS applications.</td>
<td>SN, Porsche A40</td>
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<tr>
<td>Mobil 1™ 10W-50</td>
<td>Case - 103537</td>
<td>1200</td>
<td>1300</td>
<td>Boosted, higher viscosity, advanced full synthetic formula designed for performance vehicles.</td>
<td>HT/HS applications. Racing and Flat tappet applications.</td>
<td>SN</td>
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<tr>
<td>Mobil 1™ Racing™ 4T 10W-40</td>
<td>Case - 103436</td>
<td>1100</td>
<td>1200</td>
<td>Advanced full synthetic formulas designed specifically for motorcycles where clutch lubrication is also important.</td>
<td>All motorcycles where 10W-40 is specified.</td>
<td>JASO MA 2011 MA2 2011</td>
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<tr>
<td>Mobil 1™ V-Twin 20W-50</td>
<td>Case - 112630</td>
<td>1600</td>
<td>1750</td>
<td>Advanced full synthetic formulas designed specifically for motorcycles where clutch lubrication is also important.</td>
<td>All motorcycles where 20W-50 is specified, especially V-Twin engines.</td>
<td>SL</td>
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<tr>
<td>Mobil 1™ FS 0W-40</td>
<td>Case - 103537</td>
<td>1000</td>
<td>1100</td>
<td>Advanced full synthetic formulation designed to meet the requirements of many European vehicles.</td>
<td>Many European vehicles. HT/HS applications.</td>
<td>SN, Porsche A40, Nissan GT-R, Chrysler MS10850, Chrysler MS10725</td>
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<td>Mobil 1™ Turbo Diesel Truck 5W-40</td>
<td>Case - 103171</td>
<td>1130</td>
<td>1250</td>
<td>Advanced full synthetic formula designed for diesel powered pick-ups and trucks.</td>
<td>Most diesel applications, including engines with diesel particulate filters.</td>
<td>CJ-4, CI-4, CI-4 Plus, SN, Caterpillar ECF-2 and ECF-3</td>
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<td>Mobil 1™ Syn Gear Lube LS</td>
<td>Transaxes and rear axles.</td>
<td>GL-5</td>
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<td>Mobil 1™ Synthetic ATF</td>
<td>Power steering.</td>
<td>JASO 1-A Ford Mercon V</td>
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<td>Mobil 1™ Synthetic Grease</td>
<td>Wheel bearings, suspension points and engine assembly.</td>
<td>NLGI GC-LB</td>
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<td>Mobilith SHC 220, 460, 1500</td>
<td>Wheel bearings and tripod joints.</td>
<td>220 - KPHC 2N-30 460 - KPHC 1-2N-40 1500 - KPHC 1-2N-30</td>
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**Mobil 1 Gear Lubes & Greases**

The same hardworking protection found in Mobil™ motor oils is available in our synthetic gear lubricants and greases.

**Mobil 1 Synthetic Gear Lubricant LS 75W-90 & 75W-140**

Mobil 1 Synthetic Gear Lube LS is a high performance, synthetic, multi-purpose, automotive gear lubricant designed to help meet the highest level performance requirements of many modern passenger vehicles in all types of operating conditions, from mild to severe, including limited slip applications, as well as deliver outstanding power transfer performance.

Mobil 1 Synthetic Gear Lubricant LS key features:
- Meets or exceeds the highest level of performance requirements of many modern passenger vehicles – including limited slip applications.
- Help protect against thermal and oxidative degradation, wear and corrosion, and viscosity loss associated with premature shearing.
- Help promote outstanding power transfer performance – even in some of the most severe driving conditions.

**Mobil Delvac 1 Gear Oil 75W-90 & 80W-140**

Mobil Delvac 1 Gear Oil is a fully synthetic drivetrain lubricant designed for use in heavy-duty drivetrains that require gear lubricants with excellent load-carrying capability and where extreme pressures and shock loading are expected.

Mobil Delvac 1 Gear Oil key features:
- Exceptional thermal stability and resistance to high-temperature oxidation help to extend gear, bearing and seal life due to minimal deposits.
- Deliver exceptional shear stability helps to retain viscosity and film strength under severe operating conditions to prevent wear.
- Provide excellent rust, staining and corrosion protection of copper and its alloys helps to reduce wear and provide long component life.

**Mobil 1 Synthetic Grease**

All Mobil 1™ Lubricants – just like the Mobil 1 family of motor oils – protect hardworking parts from temperature extremes, rust and wear. In fact, we use the same synthetic technology from our motor oil in our fully synthetic grease.

Mobil 1 Synthetic Grease is suitable for:
- Wheel bearings.
- Ball joint suspensions.
- Steering linkages.
- Pin and chassis lube points.
- A wide operating range: -40°C (+40°F) to 150°C (302°F).

Mobil 1 Synthetic Grease is suitable for:
- Excellent resistance to rust and corrosion.
- Strong shock-loading protection.
- Excellent resistance to water washout.
- Outstanding lubrication over a wide temperature range.
- Certification to the NLGI GC-LB specifications for both chassis and wheel bearing lubrication.
I’m a vehicle dynamics specialist by trade, but a racer by heart. I know that selecting only the best parts will get me ahead of the next guy, so that’s why I choose Mobil 1 Racing™ oils.

Tim Brown
Driver/Owner - Brown Motorsports Inc
10-time Bowman Gray Track Champion

We build all of our chassis and engines with one goal in mind - winning a championship. That performance goal is why we only use Mobil 1 Racing™ oils.

Jimmy Carr
Race Director, Tony Stewart Racing
Crew Chief, Donny Schatz No. 15 Winged Sprint Car

What Champions Say

John Heinricy
13-Time SCCA National Champion

I’m an engineer, first and a racer second. So no matter what race car I’m driving, I know testing Mobil 1™ under the hood will help reduce unnecessary costs and performance issues.

Kevin Pranger
Katech Engines and Development
3-time 24 Hour of Le Mans Winning Engine Lead Developer

With more than 30 years in the engine business, Katech has worked with many different oil companies. They all claim their products are special in some way or another. Mobil 1™ products prove themselves on the road and the track. From winning a title to our famous Track Attack Vettes, Mobil 1™ products are behind every one of our successes.

Donny Schatz
Driver, Tony Stewart Racing
8-time and defending World of Outlaws Sprint Car Series Champion

When pushing factory parts to their limits, Mobil 1™ is a key contributing factor to keeping our COPO moving down the strip, and at the top of the time sheets.

Bruno Massel
Owner/Driver - 2014 COPO Camaro
2014 NHRA US Nationals Winner in Stock Eliminator

Mobil 1™ Racing oils have been an incredible asset to myself and our company over the past few years. This brand has been involved in the top levels of motorsports for a long time winning countless races and championships and I’m proud to run them in the engines that I support.

Ron Shaver
Engine Builder, Tony Stewart Racing

Do I need to run break-in oil before using Mobil 1™ oils?
No special break-in oil is recommended.

Donny Schatz
Driver, Tony Stewart Racing
8-time and defending World of Outlaws Sprint Car Series Champion

Can I run the lighter viscosity Mobil 1™ 0W-30 oil without sacrificing engine durability?

Can I use Mobil 1™ oil in my street car?
This is not recommended due to the higher levels of additive elements such as Zinc and Phosphorus contained in Mobil 1™ oils which can have an adverse effect on the exhaust emission control systems fitted to street cars.

Can I use Mobil 1™ oil in a turbocharged application?
Yes. Mobil 1™ Racing oils are specifically formulated with race-proven technology that helps combat deposit formation in high temperature areas of the engine such as the turbocharger.

How does Mobil 1™ 0W-50 react to ethanol/methanol-based fuels?
Mobil 1™ advanced full synthetic motor oils are compatible with most fuels; however, excess fuel dilution may require more frequent changes and used oil analysis for quality monitoring.