Top up your oil with Mobil 1

How, when and why

Mobil 1

Why you need to check your oil regularly

Thanks to advances in engine technology, today's cars are exceptionally reliable and can go much further between services than earlier models, often thousands of miles further.

Of course, that's good news for you. But it does mean that, it's more important than ever to check your oil level regularly and top it up when necessary.

If you don't, you're taking a real risk with your engine's health. As the oil level drops, the remaining oil in your engine has to work harder, becoming dirtier and wearing out faster with the result that your car's performance will start to suffer. Not much further down the road, your engine will be in real danger of increased wear, overheating and even total seizure.

When to check your oil

Ideally, you should check your oil weekly, as recommended by most car manufacturers. If the oil level drops from maximum to minimum after less than 1000 miles (1500 km), you should have your engine checked. Oil consumption is different from one car to another and from one driving style to another.

How to check and top up your oil

1. Park on a level surface, turn off the engine and wait for 3-4 minutes to allow the oil to settle.
2. Find the dipstick, pull it out, wipe and re-dip before taking your reading.
3. If it is less than maximum, check the fill guide to find out how much you need to add.
4. Remove the oil filler cap on top of your engine, add the right amount of oil and replace the oil filler cap after the oil top up.
5. Wait 60 seconds to allow the oil to drain into your engine, then re-dip to check the new level. Add more oil if necessary and replace the oil filler cap.

The difference between the maximum and minimum levels on your dipstick is at least 1/2 litre. But it does vary depending on the make of car. If in doubt, check your car's handbook. Your Mobil Top-Up pack contains 1 litre.

Mobil 1
The world's leading synthetic motor oil

Throughout its 40-year history, Mobil 1 has been at the forefront of automotive lubrication innovation. Constantly developed to exceed industry standards, Mobil 1 is the world leader in the field of synthetic motor oil with an outstanding heritage.

Advanced engine protection for optimum performance

No matter what car you drive, Mobil 1 is the one engine oil you can rely on for all these important reasons:

- Enhanced fuel economy
- Increased wear protection for long engine life
- Formulated to help keep cars running like new
- Outstanding cleanliness and deposit control
- Fast-starting at low temperatures
- All-temperature durability
- Great catalyst efficiency
- Helping to reduce engine emissions potentially lessening environmental impact

The premium brand that can help you to save money

The advanced formulation of Mobil 1 that can help to conserve energy and can reduce fuel consumption, as well as engine emissions, by reducing friction. What's more, improved engine protection can translate into savings on maintenance costs.

The One. Whatever you drive

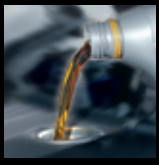
Mobil 1 meets the highest standards of carmakers and the petroleum industry worldwide. That's why it is fitted as original equipment in some of the world's finest vehicles including Porsche, Mercedes-Benz and Aston Martin and is recommended by a host of manufacturers including BMW, Saab, DaimlerChrysler and Volkswagen.

Older, higher-mileage vehicles also benefit from the added protection of Mobil 1. And it's suitable for both petrol and diesel-engine passenger cars.

Mobil 1 with SuperSyn™ The utlimate anti-wear system

Mobil 1 with SuperSyn™ combines anti-wear additives and a combination of high-performance fluids that are engineered to provide outstanding engine protection. The SuperSyn™ anti-wear system is at the core of this formula. Instead of breaking down in extreme high-stress at high-temperatures, the SuperSyn™ anti-wear system actually excels under these conditions.

Mobil 1 with SuperSyn™: superior to conventional oils in these vital areas…

	Conventional lubricant	Mobil 1 SuperSyn™	
Thickens at extremely high temperature			Heat resistant at extremely high temperature
Viscous at extremely low temperature			Pourable at extremely low temperature
Sludge deposits after 20,000 km			Clean after 20,000 km
Normal fuel consumption			Developed to help reduce fuel consumption
May not be suitable for vehicles with long-life extended drain intervals			Long drain intervals in accordance with manufacturers' requirements

Mobil1 0W-40

Engineered for the latest engine technology, Mobil 1 0W-40 with SuperSyn is the ultimate, high-performance synthetic engine oil.

The outstanding added value of Mobil 1 0W-40

- Enhanced fuel economy
- Increased wear protection for long engine life
- Formulated to help keep cars running like new
- Outstanding cleanliness and deposit control
- Fast-starting at low temperatures
- All-temperature durability
- Great catalyst efficiency
- Helping to reduce engine emissions potentially lessening environmental impact

It also meets or exceeds the following specifications

API SJ/SL/SM/CF
ACEA A3/B3 & A3/B4

Approved and recommended by the leading car makers

Mobil 1 0W-40 exceeds the engine oil requirements of BMW, SAAB and Volkswagen (VW) Group. Mercedes-Benz and is initial fill for all Mercedes-Benz AMG vehicles. It is approved by Porsche as the initial fill and recommend for service fill.

These engine oil recommendations are a general guide only, for specific model please refer to vehicle handbook.

Mobil 1 ESP Formula 5W-30

Mobil 1 ESP Formula 5W-30 is an advanced performance engine oil designed to provide exceptional cleaning power, wear protection and overall performance. Mobil 1 ESP Formula 5W-30 has been expertly engineered to help prolong the life and maintain the efficiency of Car Emission Reduction Systems in both diesel and petrol powered automobiles.

The outstanding added value of Mobil 1 ESP Formula 5W-30

- Enhanced fuel economy
- Contributes to prolong the life and maintain the efficiency of Diesel Particulate Filters (DPF's) and petrol Catalytic Converters (CAT's)
- Meets the requirements for extended service intervals*
- Engineered for diesel and petrol engines*
- Outstanding wear protection
- Excellent high and low temperature performance
- Helps improve protection against sludge

(*) refer to OEM specification and owner manual.

Meets or exceeds the following specifications

API CF
ACEA C2/C3, A3/B3 & A3/B4

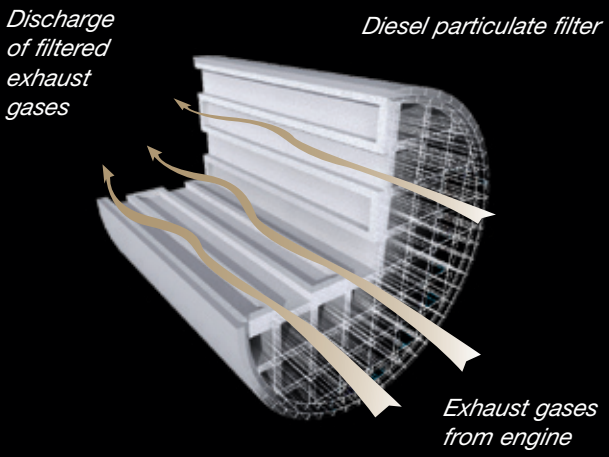
Meets the following engine test requirements

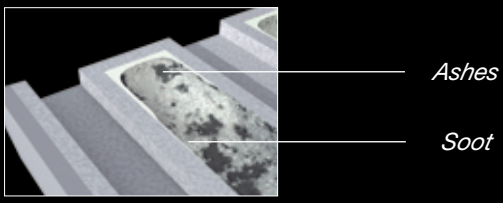
ACEA A5/B5
API SL/SM

These engine oil recommendations are a general guide only, for specific model please refer to vehicle handbook.

How diesel particulate filters work

The principle behind all diesel particulate filters is the same: they collect soot particles and combust them at electronically controlled intervals.





To ensure that diesel particulate filters operate efficiently, it is important that ash deposits from the oil are kept to a minimum.

Mobil 1 ESP Formula 5W-30 has a special low ash formulation, ensuring that diesel particulate filters continue to operate at their optimal level.

Frequently Asked Questions

1. What's the difference between a fully synthetic and a semi-synthetic motor oil?

All motor oils are made up of base oils and additives. Fully synthetic motor oils contain 100% non-conventional, high-performance fluids. Semi-synthetic oils (also called "blends") contain a smaller percentage of these high-performance fluids in combination with conventional oil. Mobil 1 is a fully synthetic motor oil.

2. What makes synthetic motor oil superior to conventional motor oil?

The performance of synthetic oils, and in particular Mobil 1, is more robust, especially in terms of low-temperature pumping and flow, and high-temperature stability and protection against deposits. These attributes translate directly into less engine wear and longer engine life.

Conventional oils also contain much greater amounts of impurities, such as sulfur, reactive and unstable hydrocarbons, and other undesirable contaminants that cannot be completely removed by conventional refining of crude oil.

3. Is it true that new engines need break-in periods using conventional motor oil?

That is a myth. In the past, engine break-in was necessary to remove any metal flashing (called swarf) or abrasive material left inside the engine after machining, as well as to allow the valves and rings to "seat" properly. Today's engines are built with much tighter tolerances, much improved machining and under much cleaner conditions compared to the engines of 10 or 20 years ago. Current engine manufacturing technology does not require a break-in period using petroleum-based motor oils. In fact, Mobil 1 is chosen as the standard factory-fill for many leading vehicle manufacturers such as Porsche, Mercedes-Benz, Cadillac, Aston Martin and many more. So Mobil 1 is often used in a car, even before you drive it off the showroom floor.

4. Is it okay to mix conventional oil with Mobil 1?
Yes, Mobil 1 is fully compatible with conventional motor oils, semi-synthetic motor oils and other synthetic motor oils should it be necessary to mix them. However, the superior performance of Mobil 1 will be reduced by diluting it.

5. Is it okay to mix brands of oil?
Yes, Mobil 1 fully synthetic oils are fully compatible with other brands of oil. No flushing is required.

6. What's inside the oil that can help it accomplish all these tasks?
Oil is made up of basestocks and additives. Additives are the ingredients in oil that take it beyond basic lubrication and help it perform specific functions.

7. Can I use an oil supplement and/or engine treatment with Mobil 1?
We do not recommend it. If the oil you use meets the specification required by your vehicle manufacturer, then this eliminates the need for supplemental engine oil additives. Considering the comprehensive testing and engineering that has gone into Mobil 1, nothing can be gained by using these supplements.

8. What is viscosity and why is it important in motor oils?
Put simply, viscosity refers to the 'thickness' of a fluid. 'Thin' or low viscosity fluids flow easily – water is a good example. On the other hand, honey is an example of a 'thick' high viscosity fluid.

However, the viscosity of a fluid isn't always constant. It changes with temperature. For example, motor oil becomes thicker when cold and thinner when hot. The technology used in engine oils tries to combat this viscosity change to ensure that at high temperatures it remains thick enough to form a protective film on engine parts and at low temperatures it remains thin enough to quickly flow to the critical engine parts.

9. **What does “multigrade” refer to?**
Multigrades are multi-viscosity oils that have been designed to perform over a wider range of temperatures than older ‘monograde’ oils. Multigrade oils are identified by two SAE (Society of Automotive Engineers) grade designations e.g. 0W-40. The lower number in front of the ‘W’ indicates the oil’s viscosity in cold temperatures – the lower the number the better the oil’s ability to flow. Similarly, the second part of the viscosity grade indicates the oil’s viscosity in hot temperatures – the higher the number the thicker the oil film.

10. **Can I use any of the Mobil 1 products in my vehicle, irrespective of its age?**
Since every Mobil 1 product has been formulated to provide exceptional performance and protection, you could use any of our Mobil 1 products with confidence, whatever the age of your vehicle. However, you may not experience all the benefits that could be provided by using a product optimised for your particular age and design of engine. Always consult your owner’s manual to check the recommended specification for your vehicle.

ExxonMobil
Lubricants & Specialties

ExxonMobil Lubricants & Specialities Europe
division of ExxonMobil Petroleum & Chemical, bvba
Polderdijkweg
B- 2030 Antwerp
Belgium

For more information visit us at www.Mobil1.com

06.08.12.EN.GB