

# Wise Sayings For Fuel Savings



*An exhaustive compilation*

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## Introduction

The task of saving fuel consumption on your car commutes is not necessarily a difficult task, if you know the 'How to'. The principles all revolve around a proper attitude and perception of the following tips that I am going to introduce to you. Many of these tips might not be new to you at all or some may be but all this will go in vain, if you do not practice what you know. I will not claim them to be "A miracle or Sure Work" principles nor promise you heaven and earth. I can only humbly say that, these tips act as a guide to a better management of fuel usage and savings.

I have done exhaustive research on this subject and many hours have been put into compiling this e-book. The internet offers many tips and I offer you today most of the tips in a nutshell. Many of this tips come from reputable and creditable sources for gas savings. My appreciation and credits goes to them. I have personally tested most of this tips and a strong believer of them. Some of these tips might not be applicable to your side of the world. Never the less, apply what best for you and ignore that doesn't apply.



### **Disclaimer**

Please take caution when applying these tips for the first time. None of the tips below should be used in a hazardous way, or in a situation that could lead to harm or damage.

I have included tips confirmed by top auto websites and news channels. Therefore, I cannot be responsible for any damages incurred through the use of these tips.

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So let's buckle up your seat belt and go for an TIPS-venture of your life time.

## **MUCH NEEDED TIPS:**



### **What with the gas? Buy the right gas**



We all know there are 3 types of gas - Regular, plus and premium/supreme. The names might defer but they signify the octane. You'll see numbers such as 87, 89-91 and 91-93. Octane is the resistance to burning. The higher the octane, the more resistance to burning there is.

Read about octane at <http://auto.howstuffworks.com/question90.htm>.

Performance car, racing and extreme off road cars need high octane gas because of the demand for performance. Generally with normal vehicles, they need gas with low resistance to burning (lower octane) because of the decreased demand for performance. When you use premium gas in a car that needs regular, you do not benefit the car at all. It is a waste of money. You actually hurt the car and clog it up with carbon deposit – as a result from the gas that isn't burnt.

In some areas, the lower octane may be too low for your car and the mid-grade or higher octane may be more than what you need. To avoid overpaying and still get the correct octane for your car you can mix the gas. For example, if your car takes 87 octane and the pumps have 85 octane and 89 octane, then when filling your car, fill half the tank with 85 octane and the other half with 89 octane and this will give you an equivalent of 87 octane plus it will save you money because the lower octane gas costs less.

Older cars from the mid to late 80's the higher octane helps, but since then cars have been using fuel injector which is a much better system. [Joseph Younger](#) from AAA states that only 5% of all cars made are recommended by car makers to use premium gas. The best way to find out the required octane level is in your car's manual. The engineers who designed your car know what's best. In the end, the only person you help by buying premium when you don't need is the oil company.

Also, **don't be brand conscious when buying gas**. Buy where you can get the best deal. Regular gas is very much a commodity meaning there isn't any significant difference between any of the brands. In fact, all the brands fill their tanker trucks at whatever refinery is closest and the only difference between "brands" is a few gallons of a proprietary additive package that gets mixed with the fuel loaded to the truck. All additives must meet OEM and EPA performance standards so the only real difference between brands is the audacity of the superior performance claims.



### **Fill tank when the weather is cool, like in the morning**

Try to fill your tank in early morning when ground and air temperatures are the lowest. Gas pumps in the most country don't compensate for the temperature of the fuel and pumps will deliver ever so slightly more if the fuel is cool. There also less loss from evaporation if fuel is transferred cool and an added plus is that this is better for the environment. However, .....

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# TIPS On Driving



## Slow down your speed

Speed is one of the biggest factors on how much gas is being consumed. The faster you drive, the more gas is burned up. If you travel 100 miles (160.934 km) going at 70mph (112.65kph) and 100 miles going at 60mph (96.56kph), you save more gas at 60mph.

According to [fueleconomy.gov](http://fueleconomy.gov), fuel economy burns up when you exceed the 60mph speed limit. **7% to 23% of gas can be saved by bringing speed limit to 60mph or 96.56kph.** Wow, that is a lot of saving. It will also save from getting speeding summons. A double bonus.

Look at the chart below. 30 mile or 48 kilometer trip going at various speeds with traffic moving smoothly.

Speed - mph	Time of Trip – in mins
75	24
70	26
65	28
60	30

Driving 60mph compares to 75mph takes you only 6 minutes longer. The savings of 7 to 23% of gas is worth the waiting.

1974 oil crisis in the USA, a nationwide 55mph speed limit was imposed. The shortage of oil at that time caused the authority to implement measure to save gas. Once the gas crisis was over, the [speed law](#) was also lifted.

Air resistance goes up as the square of velocity. The power consumed to overcome that air resistance goes up as the cube of the velocity. Rolling resistance is the dominant force below about 40 mph. Above that, every mph costs you mileage. Go as slow as traffic and your schedule will allow. Drive under 60-65mph (96kph) since air grows exponentially denser, in the aerodynamic sense, the faster we drive. To be precise, the most efficient speed is your car's minimum speed in its highest gear, since this provides the best "speed per RPM" ratio. This is usually about 45 to 55 miles per hour.



## Observe your acceleration

When driving within city limit, accelerate as slowly as possible so as not to have to brake sharply. Mind you a lot of braking also wears off your brake pad faster, needing you to dig deeper into your wallet. When you accelerate faster, you will get to travel maybe a longer distance. If during this distance you have to stop because of a car in front, you end up only traveling a shorter distance, while the energy burned during the acceleration is consumed. This is wastage of fuel.

Gas are wasted in aggressive driving (speeding, rapid acceleration and braking). It can lower your gas mileage by 33 percent at highway speeds and by 5 percent around town. Sensible driving is also safer for you and others, so you may save more than gas money.

So the whole idea is not to floor the gas, but to accelerate slowly and then get into high gear as soon as you can.

Also, **drive at a consistent speed**. Use cruise control when you can.

Look at this test done in [Edmond.com](http://Edmond.com)

### Test #: Aggressive vs. Moderate Driving

*This is gonna hurt. Our tests showed that the most significant way to save gas is: you. And we're talking massive fuel economy gains. Think you need a hybrid? Chances are you've got hybrid-style mileage in your gas pedal foot. Don't mash the gas when you start up. Take the long view of the road and brake easy. This tip alone can save you unbelievable amounts of gas. If you slowed your 0-to-60-mph acceleration time down from your current 10 seconds to a more normal city pace of 15 seconds, you'll feel the savings immediately.*

**Method:** *We conducted this test four times. The first time we did the full 55-mile loop once by accelerating aggressively 15 times at 3/4-throttle from zero to a cruising speed of 75 mph. We also applied the brakes hard to come to a full stop. Then, we drove the second loop by accelerating moderately 15 times at 1/4-throttle to a cruising speed of 70 mph. We braked lightly to a full stop. In the second set of tests we drove 25 miles making 25 rapid accelerations to 65 mph at 3/4-throttle. After 1 minute of cruising we braked hard and repeated the cycle up to 65 mph. We then drove the same distance making 25 moderation accelerations to 60 mph at 1/4-throttle. After 1 minute of cruising we applied the brakes easily and came to a full stop.*

**Result:** Major savings potential

**The Cold Hard Facts:** Up to 37 percent savings, average savings of 31 percent

**Recommendation:** Stop driving like a maniac.

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# TIPS On Maintenance



## Replace air filter

Your car runs on gas and oxygen. Therefore a dirty air filter can significantly short change your car. Motor engines act as air pumps. Chemically correct air fuel ratios are set to make power. More air, more fuel, more power. Your air filter is what keeps the intake air clean. Without it your engine would suck in more dirt and contaminate your engine combustion chambers.

Over time, dirt clogs the air filter, and your engine can't breathe. Sluggish performance and poor fuel economy can be the result of a dirty air filter. Dirty air equals a dirty engine. A clogged or dirty air filter may reduce fuel mileage by up to 10-20%. A clean air filter ensures that the engine breath's freely avoiding the engine from working unnecessarily hard.



## Switch to synthetic oil

Synthetic motor oil reduces drag and allows the engine to operate more freely, giving you improved fuel economy.

Synthetic motor oil, when compared to conventional motor oils, gives real performance benefits:

- Superior protection in low temperatures, enabling easier and faster start-ups in cold weather (as low as -40°F);
- Enhanced high-temperature durability, reducing oxidation and wear on critical engine parts (up to 400°F);
- Reduced oil consumption under high-speed conditions;
- Superior performance under heavy engine loads/stresses, such as hauling and towing

- Increased stability and better control of deposits that can impede flow and lead to higher wear.

If you work your engine hard, drive in extreme heat, or have cold weather starts, then synthetic oil will protect your engine better. Referenced from [Part Source](#)



### Keep Your Engine Properly Tuned And Maintained



Fixing a car that is noticeably out of tune or has failed an emissions test can improve its gas mileage by an average of 4 percent, though results vary based on the kind of repair and how well it is done.

Also remember to check your spark plug and battery, to make sure they are at their optimum performance as an under powered vehicle is not fuel efficient. Check your owner's manual for your vehicle's recommendations and have maintenance performed regularly by a dealer or reputable mechanic.

Inspect suspension and chassis parts for occasional misalignment. Bent wheels, axles, bad shocks, broken springs, etc. create engine drag and are unsafe at high traveling speeds.

## How often do I change engine oil?

What does my oil actually do?

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Engine oil's job is primarily to stop all the metal surfaces in your engine from grinding together and tearing themselves apart from friction whilst transferring heat away from the combustion cycle. Engine oil must also be able to hold all the nasty by-products of combustion.....

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# TIPS On Common Sense



## Drive less - Carpool



Walk, bike, ride the bust or join a carpool.

[EVWorld](#) reported:

*Many people are getting “whacked in the wallet” for our commutes to work! It is how most of us, consume most of our fuel. This is starting to hurt! What if you could cut the cost in half; almost overnight?*

*Buy a new car? No.  
Use some amazing new fuel? Wrong again  
How then?*

*By making one new friend!*

*Here is the challenge, find one new friend that lives and works in the same*

*general areas with mostly the same hours. It doesn't have to be the same exact neighborhood or workplace. Then arrange to share rides to work.*

*Not only will each of you cut your fuel cost in half, you'll both put less miles on your tires and your vehicle. Many insurance policies rate on the annual miles traveled so you could save there too. If you work in an area that charges for parking... even more savings! You'll also have a built-in, back-up, commuting buddy for those mornings when the car won't start or is in the shop for repair.*

*This won't be completely simple or effortless. Having a good friend means being a good friend. You'll want to be prompt, dependable and flexible. Either no music or each make a list and play only the titles where you agree. No smoking, eating or drinking will respect the car interior of your new friend. You might want to avoid topics like politics and religion too.*

*Many of us have in-laws, relatives or co-workers where we don't vote, worship or even eat alike. Still, with a little care, we enjoy years of friendly relationships that make our lives happier, more fulfilled and easier. The more friends you have, the more connected we all are to common challenges.*

Car pools reduce travel monotony and gas expense - all riders chip in to help you buy. Conversation helps to keep the driver alert. Pooling also reduces traffic congestion, gives the driver easier maneuverability and greater "steady speed" economy. For best results, distribute passenger weight evenly throughout car.



### **Pick a better route**

Avoid heavy traffic and lots of traffic lights. The shortest route is not always the most fuel efficient if you have to stop a lot. It's the shortest journeys - less than two miles – which cause the most pollution and are inefficient in terms of fuel consumption. A straining cold engine will produce 60 per cent more pollution than a warm one. Yet it's these shorter journeys that are ideal for walking or cycling. If you are always stuck in rush hour traffic after work anyway, try to find something to do near your work until the traffic dies down, rather than try to fight through it.

**Plan your route.** A bit of forethought can save much wear and tear - for the car, and the driver. Try to take the most direct route and go off peak if possible. Sitting in congestion means you are often doing zero miles per gallon. Try to combine several errands in one outing. If possible, **use a global positioning**

**system (GPS)** to help you navigate and find the fastest and shortest distance to your destination. Avoiding hills and stops will increase your gas mileage.

**Walk between stops.** Once you get into town, some of your stops may be near each other. Park between some or all of them and walk.

**Park in the first spot you find.** If you wander all over the parking lot looking for that really close parking space, you'll use more .....

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## CONCLUSION:

So with all these helpful tips, I can conclude that you will indeed save fuel and save some money. But like all knowledge, is useless, unless you practice what you have learnt. Knowledge with practice is wisdom.

Thank you for buying this eBook.

God bless you.

Richerd Ho  
<http://ispark.computersolutiontrio.com>  
July 2008.

The end

