

Summer Checklist

Summer is the season for road trips. The sun is shining and many Americans and Canadians take to the road to visit family or go camping. The last thing anyone wants is to be forced to call roadside assistance because their vehicle over heated or broke down on the side of the road. A break down costs more than a phone call and parts, it's inconvenient. Bardahl specialists recommend that the following checklist be followed to help prepare your vehicle for summer driving and they also remind you to read the owner's manual for service intervals and guidelines on each of the following items.

- Oil Change – consider adding Bardahl oil additive for greater protection
- Tire Pressure
- Windshield Wipers (Including the rear wiper!) – [click here to find the wiper blade for your vehicles](#)
- All Fluid Levels
 - Coolant
 - Washer Fluid
 - Transmission Fluid
 - Brake Fluid
 - Power Steering Fluid
- Check All Hoses and Belts
- Climate Control System
- Battery

If it's been more than a year since you've had your vehicle looked at by a certified mechanic, we recommend setting an appointment today. Ask about their specialty services, such as radiator flush or power steering flush, for improved maintenance of your vehicle.

Fuel Saving Tips:

Bardahl has teamed with the Car Care Council to provide the following Fuel Saving Tips:

| <u>Condition</u> | <u>Effect</u> | <u>MPG Penalty up to</u> |
|-------------------------|---|---------------------------------|
| Underinflated tires | Increase rolling resistance | 1-2 mpg |
| Dirty air filter | Causes excessively rich fuel/air mixture | 2.0 mpg |
| Worn spark plugs | Cause inefficient combustion, wasted fuel | 2.0 mpg |

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| Worn O2 sensor | Unable to detect and adjust air/fuel mixture | 3.0 mpg |
| Dirty or substandard engine oil | Increases internal engine friction | .4 mpg |
| Loose gas cap | Allows fuel to evaporate | 2.0 |
| Potential loss in fuel economy if all of the above were neglected | | 11.4 mpg |

The Car Care Council offers these fuel-saving tips:

1. Vehicle gas caps -- About 17 percent of the vehicles on the roads have gas caps that are either damaged, loose or are missing altogether, causing 147 million gallons of gas to vaporize every year.
2. Underinflated tires -- When tires aren't inflated properly it's like driving with the parking brake on and can cost a mile or two per gallon.
3. Worn spark plugs -- A vehicle can have either four, six or eight spark plugs, which fire as many as 3 million times every 1,000 miles, resulting in a lot of heat and electrical and chemical erosion. A dirty spark plus causes misfiring, which wastes fuel. Spark plugs need to be replaced as recommended by the manufacturer.
4. Dirty air filters -- An air filter that is clogged with dirt, dust and bugs chokes off the air and creates a "rich" mixture -- too much gas being burned for the amount of air, which wastes gas and causes the engine to lose power. Replacing a clogged air filter can improve gas mileage by as much as 10 percent, saving about 20 cents a gallon.

Fuel-saving driving tips include:

- Don't be an aggressive driver -- Aggressive driving can lower gas mileage by as much as 33 percent on the highway and 5 percent on city streets, which results in 10 to 66 cents per gallon.
- Avoid excessive idling -- Sitting idle gets zero miles per gallon. Letting the vehicle warm up for one to two minutes is sufficient.
- Observe the speed limit -- Gas mileage decreases rapidly at speeds above 60 mph. Each mpg driven over 60 will result in an additional 10 cents per gallon. To maintain a constant speed on the highway, cruise control is recommended.

We recommend the use of Bardahl Formula 10 – a fuel saving product that can improve gasoline efficiency by up to 10% (*this product is not available in the US*)
Call 1-888-BARDAHL for more details or email customersupport@bardahl.com