

Spring
2008

JB AUTO CARE

A QUARTERLY NEWSLETTER FROM ...
... YOUR AUTOMOTIVE PROFESSIONALS

Transmission Service



As important as changing your oil is to your engine, the periodic service and fluid replacement in your transmission is just as critical to its operation, reliability, and longevity.

Like engine oil, transmission fluid will naturally break down over time due to the high operating temperatures and pressures it's subjected to as it does its job.

Transmission fluid also becomes contaminated with the normal by-products of friction and wear from all of the moving parts it protects. This abrasive material is suspended in the fluid and not always caught by the filter. Instead, it begins to accelerate the wear throughout all of the transmission's precision-made parts. These sediments can also collect and clog the tiny orifices and valve bodies that are critical to proper shifting and other functions.

The good news?

Proper transmission service is simple and money well spent.

The bad news?

Neglect this service for too long and expensive damage will result.

It's Spring Time!

For many parts of the country it has been a rough winter—bitter cold, lots of ice and snow, and numerous, deep pot holes to explore with your vehicle's suspension. But all that is over now, right? Or does the spring season bring some challenges of its own? Rain is the next challenge we face as the seasons change and the temperature warms up. Since wet weather demands its own set of driving strategies, we offer the following tips as a helpful reminder:

- ◆ Be wary of puddles in the road: They could be deep potholes left over from winter that are filled with water. If possible, slow down and try to straddle puddles with your tires as you cross over them.
- ◆ Never plow through a body of water that covers a roadway. You have no way of knowing how deep it is and what hazards it hides. It is better to play it safe, turn around, and take another route.
- ◆ Hydroplaning occurs when your tires cannot push away the water from under the tread fast enough, so your car is lifted up and you lose contact with the road. Always match your vehicle speed to road conditions. Better yet, habitually err on the side of caution.
- ◆ Be aware that oil and grease deposits build up on roadways over the winter months since there's no heavy rainfall to wash them away. Add a spring shower, and road surfaces can become slicker than ice.

Everyone here at **JB Auto Care** wants you to have a safe and great spring season. We appreciate your business and your referrals of friends and family. Thank you!

The Entire Staff at ...

JB Auto Care



Approved
Auto Repair



Jill, Bill, Chloe & Christian



291 BRIDGE STREET • N. WEYMOUTH • MA • 02191 • (781) 331-6068

Service Hours: Mon-Fri 8 am - 5 pm . Sat. 8 am - 4 pm Gas Hours: Mon-Sat 6 am - 10 pm . Sunday 8 am - 10 pm

Without ambition, one starts nothing. Without work, one finishes nothing.

In the news ...

- One evening, in a rural area near Berezovka, Russia, a band of thieves were able to dismantle and cart off a 40 foot steel bridge that weighed almost 200 tons—without being seen! Frustrated officials suspect it was stolen simply for its scrap metal value. They plan to replace it with a concrete structure which will cost over 20 times the value of the scrap iron taken!
- According to the latest reports, there are almost 790 million motor vehicles in use in the world today. Given an average length of 20 feet, if you were to stack them all bumper to bumper, they would stretch from the surface of the earth to the moon and back again 6 times.
- In Denmark, you can now buy an insurance policy that will cover any speeding tickets and/or parking fines that you receive during the policy's term (up to certain limits). To purchase the policy, drivers must first prove that they have a fairly good driving history. City officials are not happy about this idea, saying it only encourages reckless driving and illegal parking.
- Homogeneous Charge Compression Ignition (HCCI) engines are the newest twist in the war for higher fuel economy. They combine the power of a standard gasoline engine with the fuel efficiency of a diesel. At low speeds, when maximum power is required, HCCI engines operate like a standard, sparkplug-fired gasoline engine. But at cruising speeds, when less power is needed, the sparkplugs become idle and a cam on the crankshaft shifts to push the pistons higher up in the cylinders. This increases the compression ratio, causing the air-fuel mixture to self-ignite, just like in a standard diesel engine. An added bonus to this design is that HCCI engines can run on a wide variety of fuels including gasoline, diesel, bio-fuels, propane, and ethanol.
- How about a motorcycle with only one tire? Sensors and gyroscopes provide the balance needed as this bike and its rider zip down the road (the smaller wheel in the front is for stability at low speeds and in the event of a sudden stop). Currently only a concept vehicle, this powered unicycle was designed as part of a study on the future of personal transportation.
- Police pulled over a man in Oldbury, England, when they observed him erratically negotiating several turns and swerving in and out of his lane as he drove down the street. Expecting to find an intoxicated driver, the officers were surprised to discover that the driver was instead ... blind. He was driving with the help of a passenger who was *voicing* directions about when to turn, brake, etc.
- A recent study of auto accidents for the insurance industry has found that doctors are the most likely category of driver to have an accident—second only to high school students. Rounding out the top five are lawyers, architects, and real estate agents. Cell phone use is the suspected factor. The top five safest drivers? Housewives, politicians, pilots, firemen, and farmers.
- A tanker truck filled with liquid chocolate overturned in Sao Paulo, Brazil, spilling its contents over three lanes of traffic. The accident scene quickly turned into a great big party as motorists stopped and began indulging their cravings for chocolate. Children were even seen rolling around in the mess. “It was the best accident ever,” one policeman was quoted as saying.



A bumper sticker recently spotted on a hearse:

Drive carefully! (We'll wait.)

For months, a married couple had a heated debate over the purchase of a new family vehicle. He wanted a high-performance sports car, and she wanted a minivan with plenty of room for their growing family. Neither would give in, and they didn't have the money to buy both. “Look,” the husband finally said. “My birthday is coming up and I don't care what you buy me as long as it goes from zero to two hundred and fifty in just a few seconds—so surprise me.” “OK, fine,” his frustrated wife answered. When the “big day” finally arrived, the man got exactly what he had asked for—his very own, shiny, brand-new ... bathroom scale.

The quickest way to find something you lost is to buy a replacement.

If life is going too easy, beware! You might be going downhill.

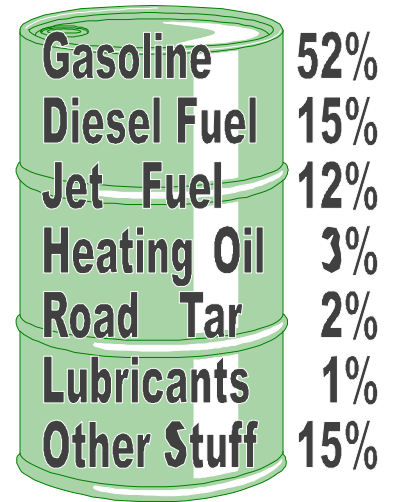
So what's in that \$100 barrel of crude oil?

The rising cost of crude oil has a direct impact on the price we pay at the gasoline pump. During the 1970s, the U.S. was paying between \$10-20 for a barrel of crude oil. Today, it hovers around \$100 for that same barrel of oil. (In March of 1946, a barrel of crude oil was selling for just \$1.37!)

While a barrel contains 42 gallons of crude oil, refineries actually end up with a little more than 48 gallons of end products after processing. This is called “processing gain” and it results from the break down of the “denser” crude oil molecules into “lighter” molecules such as gasoline and other fuels. For example, gasoline takes up more space (as measured in gallons/mass) than road tar. So as gasoline molecules are freed from the heavier crude oil, the overall extracted volume of a barrel increases, even though its total weight (or mass) does not change.

At the pump, approximately 50% of what we pay for a gallon of gas is the direct cost of the crude oil it takes to make the fuel itself. Another 28% goes to the refinery, and 15% is for taxes. The remaining 7% is divided among distribution, marketing, and the gas station’s operating expenses and profit.

FYI: Did you know that before the internal combustion engine was invented, gasoline was a useless by-product of crude oil refining and was simply burned off or otherwise discarded as waste?



Your best defense against rising fuel costs is to maintain your vehicles in top running form by following the manufacturer’s recommendations for service and fluid change intervals. The good news is ... **JB Auto can help! We’ll even keep track of what services are due to always provide you with peak performance.**



Is it time for a great new car or light truck from JB Auto?

What better place to buy a ‘new’ family vehicle than from your trusted mechanic? We are very picky about the vehicles we offer for sale, and each one is put through a comprehensive maintenance check.

Let **JB Auto** save *you* time, hassles, *and* money on your next vehicle purchase. **Call us today!**

FREE Consult! Even if you aren’t buying from us, we want you to make the best deal possible and avoid buying a ‘lemon’. So give *us* a call first!

We also BUY used cars, trucks, and vans!

Before you spend money on costly advertising, give us a call if you have a car, van, or light truck to sell. We just might already know someone who would be interested in it or perhaps, we’d even like to add it to our current inventory and buy it from you ourselves!

What do you suppose was the best thing before we learned how to slice bread?



*Car trouble?
We fix everything!*



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Master
Technicians



For the "Best" in Service:
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Or visit us anytime at:
www.JBAutomotive.com

Spring is the season children slam the doors they had left open all winter.

Springtime Car Care

A few simple steps



Spring is the time to undo all of the wear and tear that winter driving has done to your car and to get your vehicle ready for the demands of the upcoming summer driving season. Heat is your engine's greatest enemy, and a hot summer sun simply adds to the problem. So get ready now, and you'll minimize the potential for any problems later on.

- ◆ **Begin the spring season with a fresh oil change and a vehicle inspection. Belts, hoses, filters, tires, wiper blades, brakes, exhaust system, and fluids should all be inspected and evaluated.**
- ◆ **Have your vehicle's A/C system checked for proper refrigerant levels and line pressures. Remember, an undercharge of as little as 10% can cause premature wear and damage to critical A/C components.**
- ◆ **Overheating is the number one cause of summer breakdowns. To avoid this, be sure to follow your vehicle manufacturer's recommended service interval for cooling system services and flushes.**
- ◆ **Winter's potholes and uneven road surfaces can play havoc with your car's suspension. Spring is a great time to get a wheel alignment done and have other safety-related items inspected.**
- ◆ **If you are experiencing hard starts, rough idling, or poor performance, it may be time for a tune-up. Fresh filters and spark plugs can pay for themselves very quickly with fuel costing \$3.00 + per gallon!**

The two seasons that cause the greatest stress on your vehicles are winter and summer. Spring and fall provide an opportunity to pamper your car and catch problems early on *before* they turn into expensive headaches. So give **JB Auto Care** a call today and schedule your spring check-up early!

Think of **JB AUTO CARE** for *all* of your automotive service needs.

"Car trouble? We fix everything!"