

PERFORMANCE-TIPS

March 2007

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500 Hp green and black Pontiac Solstice by Top Tuner



At SEMA this year RDUSH introduced the Roadster, a head-turning topless Sting.



TRD/Modelista Turbo Yaris -Tuners strapped a turbo to the 1.5-liter engine to produce 150 HP.

MECHA TOOL

DEPENDENT FORMULA FOR A CLEAN ENGINE

Mecha Tool is the new detergent formula engineered to provide maximum protection to engines in all weather conditions. Mecha Tool is an API certified motor oil which meets or exceeds API Service SM/SUSJSH ILSAC GF-4/GF-3. It comes in 10W-30, 10W-40 & 20W-50 multi grade motor oil that meets all requirements for ENERGY CONSERVING performance standards.



Cabin Filters keep your inside air clean. Recommend changes every 12,000 miles.

M&J SUNSHINE

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MOTION PLUS
FORMULATED FOR TOP PERFORMANCE

My engine uses about a quart of oil every 1,000 miles. Should I be concerned?

Not if you plan to sell or trade your vehicle soon. An engine that uses a quart of oil every 1,000 miles is starting to show the effects of wear. The amount of oil it is using is still acceptable, but it will gradually increase as the miles add up. When it reaches the point where it's using a quart every 500 miles or less, it's time for an overhaul.

Oil consumption depends primarily on two things: the valve guides and piston rings. If the valve guides are worn, or if there's too much clearance between the valve stems and guides, or if the valve guide seals are worn, cracked, missing, broken or improperly installed, the engine will suck oil down the guides and into the cylinders. The engine may still have good compression, but will use a lot of oil.

An oil consumption problem caused by worn valve guides can usually be cured by a valve job. Knurling, sleeving or replacing the guides, or boring out the guides and installing valves with oversized stems will stop the loss of oil.

Oil can also get past the rings if the rings or cylinders are badly worn or damaged, if the cylinders were not honed properly when the engine was built (or rebuilt), or if the rings were installed improperly.

When a newly-built engine is first started, the rings require a certain amount of time to "seat" or break-in. If the rings fail to seat properly, the engine will use oil. This may be the case if somebody applied the wrong finish to the cylinders, failed to clean and lubricate the cylinders properly before the engine was fired up, or didn't use the proper break-in procedure.

If the rings and/or cylinders are at fault, the engine will have lower than normal compression readings. In some instances, worn rod bearings, excessive bearing clearances and/or excessive oil pressure can splash too much oil on the cylinders causing oil to get past the rings. The cure for worn rings and cylinders is to overhaul the engine block. The cylinders have to be re-finished and new rings installed to regain good oil control.



Our Oil System Cleaner has changed. It now comes in a easier to pour bottle. The chemical composition is the same and the capacity has increased to 16 oz, yet the price remains the same.

Mazda3 may be vulnerable to break-ins



We feel this is important information for Mazda3 owners and we're encouraged by Mazda's reaction to the situation so far. First the deeds: it appears that a few owners of the Mazda3 have come back to their vehicles to find their valuables missing but no visible signs of breaking and entering like shattered glass or broken locks. The only clue left by thieves is a big dent in the front passenger door.

Canadian website MobileMag.com got the skinny from an anonymous Mazda dealer that if one hits the passenger door hard in just the right spot it will affect the lock assembly mechanism and unlock the doors. Mystery solved. Mazda has been aware of and working on this issue since October of 2006, and this month it began installing a "countermeasure" in all Mazda3s being built in Japan. For those who have already had their cars broken into, in some cases Mazda has agreed to install a reinforced door lock assembly and a protective plate to prevent the same break-in from happening again, though it has not offered to repair the dents. At this point, Mazda does not consider this "trick" a defect in the product and it hasn't decided whether or not all Mazda3s will be called back to have the countermeasure installed.

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Performance-Tips

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Transmission Treatment reduces friction, noise and wear in transmissions, gear boxes and differentials. Increases hydraulic and transfer case life. Can be used on 2-stroke engines. We recommend repeat treatment every 6 to 9 months.



M & J Sunshine also carries cartridge filters for European as well as domestic automobiles.



Mecha Tool is a certified motor oil which meets or exceeds API Service SM/SL/SJ/SH ILSAC GF-4/GF-3. It comes in 10W-30, 10W-40 & 20W-50 multi grade motor oil. **Call for pricing and get surprised.**

Top 10 Most Popular New Cars

1. Honda Civic
2. Volkswagen Rabbit
3. Honda Accord
4. BMW Z4
5. Toyota RAV4
6. BMW 335
7. Ford Mustang
8. Toyota Tacoma
9. Toyota Camry
10. Dodge Caliber



Why ATF Wears Out



An automatic transmission creates a lot of heat through friction: the friction of the fluid churning inside the torque converter, friction created when the clutch plates engage, and the normal friction created by gears and bearings carrying their loads. It doesn't take long for the automatic transmission fluid (ATF) to heat up once the vehicle is in motion. Normal driving will raise fluid temperatures to 175 ° F., which is the usual temperature range at which most fluids are designed to operate. If fluid temperatures can be held to 175 ° F., ATF will last almost indefinitely -- say up to 100,000 miles. At elevated operating temperatures, ATF oxidizes, turns brown and takes on a smell like burnt toast. As heat destroys the fluid's lubricating qualities and friction characteristics, varnish begins to form on internal parts (such as the valve body) which interferes with the operation of the transmission. If the temperature gets above 250 ° F., rubber seals begin to harden, which leads to leaks and pressure losses. At higher temperatures the transmission begins to slip, which only aggravates overheating even more. Eventually the clutches burn out and the transmission calls it quits. On most vehicles, the automatic transmission fluid is only "partially" cooled by a small heat exchanger inside the bottom or end tank of the radiator.

According to the Automatic Transmission Rebuilders Association, 90% of ALL transmission failures are caused by overheating. It is recommended to change the transmission fluid per your owners manual and use transmission additives to reduce friction which in turn reduces temperature.

Is the motor oil you are using an API Certified one?

Who is the American Petroleum Institute (API)?

API is the only national trade Association that represents all aspects of America's oil and natural gas industry. It has more than 400 corporate members. They are producers, refiners, suppliers, pipeline operators and marine transporters, as well as service and supply companies that support all segments of the industry. Today API is recognized around the world for its broad range of programs, but particularly the API Certification Program.

What is an API Certification Program?

The API Certification Program licenses facilities that produce products that meet API standards. Manufacturers of oilfield equipment imprint their products with the monogram that represents API exacting specifications. The API Service System and Certification Mark represent a voluntary licensing and certification program so those in engine oil markets can show that their products meet strict performance requirements.

Who is authorized to use the API Service Symbol "Donut" and the Certification mark "Starburst"?

These symbols can only be used by API certified companies who have received the Engine Oil Licensing and Certification System Program (EOLCS). The Program authorizes oil marketers who meet specified requirements to use them. These 2 Engine Oil Quality Marks help consumers identify quality engine oils for their gasoline and diesel powered vehicles.



Heard it On The Street

A guy stops by to visit his friend. They talk for a while and then the friend asks, "My feet are cold. Would you be so kind as to go get me my sneakers please?" The guest obliges and goes upstairs. There he sees his friend's daughters, both very good looking. Being the adventurous and quick thinking kind, he says: "Hi ladies! Your daddy sent me here to have sex with you!" They stare at him and say, "That can't be!" He replies, "OK, let's check!" He shouts at his friend down the stairs, "Both of them?" "Yes, both of them!"

Fly



Small Ferrari

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Chick Of The Month

