

A monthly publication filled with industry news, maintenance and safety tips, upcoming events, special coupons, and more!

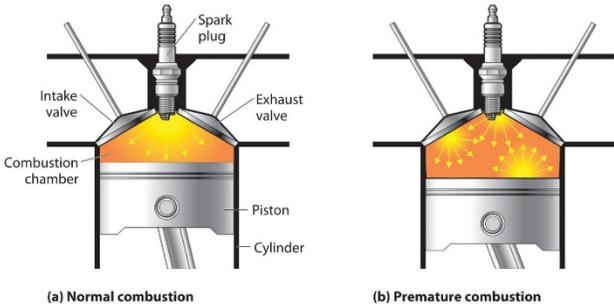


Fuel Octane...

What's the big deal??

Premium vs. Regular Unleaded Gas

Both premium and regular unleaded fuel are made from crude oil and are highly combustible. The primary difference is that premium gas has a higher-octane rating – usually a rating of 90 octane or higher. This is important when it comes to powering vehicles while preventing knocking.



When gasoline and air ignite before they should, it causes an explosion known as pre-ignition, which causes a knocking sound. Octane determines how

well the fuel can resist pre-ignition. With an octane of 90 or higher, premium gasoline is less prone to pre-ignition or knocking. Premium fuel can also contain detergents and additives that help engines run cleaner and create less pollution.

Required vs. Recommended

If your car manufacturer does not require or recommend premium fuel, you will gain no benefit by using it (e.g., performance, economy, environmental). It will only cost you more at the pump.

If your car manufacturer **requires** premium fuel, they usually have a good reason for this, and you should listen. Running a lower octane than required can lower fuel economy, decrease performance, and ultimately cause damage to your engine over time. If you mistakenly add a lower octane fuel than required, you can just use the tank of gas and go back to premium gas on your next fill. Using a lower octane than required by manufacturers may void your warranty.

If a premium fuel is **recommended**, this is where you have options. You can run regular unleaded fuel without concern for your engine, although



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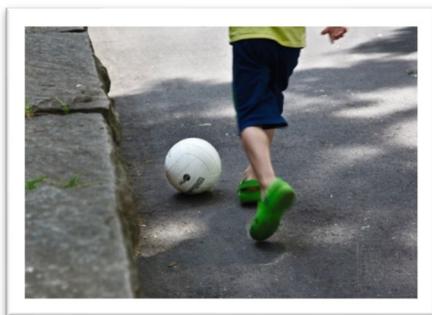
performance and economy may be affected. If you begin to experience pre-ignition knocking, you can

begin using a higher octane fuel until this is eliminated.



Modern engines have computers that can help accommodate lower octane fuels by using knock sensors to retard spark timing, but this does not mean you can

ignore octane requirements. Check your owner’s manual. If the manufacturer says the engine requires premium, use it. Don’t try to save a little money by buying regular gasoline. This can lead to much larger auto expenses in the future.



In the Community...



Spring is finally here, and kids will be spending more time outdoors. Please drive with care and watch for kids playing near roadways everywhere!

See page 3 for this month’s special deal!

Did You Know?

The last letter added to the alphabet wasn’t the letter Z – it was the letter J.

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German chocolate cake was named after a guy named Sam German – not the country.

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The voice of Mickey Mouse married the voice of Minnie Mouse in real life.

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A “buttload” is a real measurement of weight.



Car Safety Tip of the Month!

Washing Your Headlights

How many of you use the provided squeegee and clean your windshield when you stop to gas up your car or truck? Now how many of you clean your headlight as well? Your headlights receive the same road spray and bugs that your windshield receives. Giving them the same cleaning at gas ups will improve the performance of your headlights while driving at night. Give it a try!



**April
Showers**



**It's
Raining Discounts
at Graeves Auto & Tire!**

**It's time for Tune-Ups
and Oil Changes!**

**Let us check you car over and get you ready
for your Spring and Summer trips.**

**Good for the month
of April only!**



*Family owned and operated
serving Montgomery County
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Print and bring this coupon with you to
Graeves Auto & Tire at the time of purchase
and receive **10% off a tune up and/or oil change..**

(This coupon may not be used in conjunction with
any other promotions or coupons.)

Coupon expires: April 30, 2020

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