

Chapter 1 : U.S. Coast Guard Questions

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What is the difference between a gasoline engine and a diesel engine? In a diesel engine, there is no spark plug. Instead, diesel fuel is injected into the cylinder, and the heat and pressure of the compression stroke cause the fuel to ignite. Diesel fuel has a higher energy density than gasoline, so a diesel engine gets better mileage. See [How Diesel Engines Work](#) for more information. What is the difference between a two-stroke and a four-stroke engine? Most chain saws and boat motors use two-stroke engines. A two-stroke engine has no moving valves, and the spark plug fires each time the piston hits the top of its cycle. A hole in the lower part of the cylinder wall lets in gas and air. As the piston moves up it is compressed, the spark plug ignites combustion, and exhaust exits through another hole in the cylinder. You have to mix oil into the gas in a two-stroke engine because the holes in the cylinder wall prevent the use of rings to seal the combustion chamber. Generally, a two-stroke engine produces a lot of power for its size because there are twice as many combustion cycles occurring per rotation. However, a two-stroke engine uses more gasoline and burns lots of oil, so it is far more polluting. See [How Two-stroke Engines Work](#) for more information. You mentioned steam engines in this article – are there any advantages to steam engines and other external combustion engines? The main advantage of a steam engine is that you can use anything that burns as the fuel. For example, a steam engine can use coal, newspaper or wood for the fuel, while an internal combustion engine needs pure, high-quality liquid or gaseous fuel. See [How Steam Engines Work](#) for more information. Why have eight cylinders in an engine? Why not have one big cylinder of the same displacement of the eight cylinders instead? There are a couple of reasons why a big 4. The main reason is smoothness. A V-8 engine is much smoother because it has eight evenly spaced explosions instead of one big explosion. Another reason is starting torque. When you start a V-8 engine, you are only driving two cylinders 1 liter through their compression strokes, but with one big cylinder you would have to compress 4 liters instead.

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Send us a quick message! Diesel generators are more reliable. The easiest way for me to explain it is this. Diesel fuel is basically a light-grade oil. Inside any internal combustion engine, there are many moving parts that create friction. Gasoline and propane are solvent-based fuels which promote friction and wear. Diesel, being a lubricant, reduces friction and wear. If you ever need to do work on a Diesel engine, they are simple. All you need to make a Diesel run is air-compression and fuel. How long will a Diesel generator last? With proper maintenance, a high-quality Diesel generator will last indefinitely. It is important to change the oil regularly and keep the air filter clean. Clean fuel is extremely important. What about the generator end. How long will it last? Although it is often referred to as a generator, we only use brushless alternators. The beauty of a brushless alternator is that it only has one wear item – a sealed ball-bearing that is rated for , hours. What about RPM Diesel generators. Why are they cheaper? They get their power from speed rather than displacement. The alternator on a RPM Diesel generator spins twice as fast so it can get by with less than half of the copper of an RPM alternator. Due to the higher engine speed, these RPM generators wear out much sooner. Can I run my Diesel generator on Bio Diesel or other alternative fuels? Yes, a Diesel generator will run on almost any type of oil. They will run on anything from used motor oil, vegetable oil, refined bio Diesel, you name it. Now, should you run your Diesel Generator on any oil-based substance it will run on? However, make sure it is clean. If it is not an emergency, select your Diesel fuel alternatives carefully. Why should I buy my Diesel generator from Hardy Diesel? We have been selling quality Diesel Generators wholesale direct since We have learned a lot during this period of time. Some things can be learned in books. Competing successfully in the wholesale generator business is not one of those things. During the last 31 years, we have seen a lot of mail-order Diesel generator companies come and go, and when they fail, they leave a trail of unhappy customers in their wake. What differentiates Hardy Diesel from our competitors is that we provide well-engineered, high-quality systems at a reasonable price. How do we manage to provide superior products at such affordable prices? Hardy Diesel is family owned and operated and we continue to do business from our 26 acre ranch 20 miles east of San Diego CA. We have no fancy showroom and pay no rent. We welcome all customers to come by and visit us. Low overhead is the key. Does Hardy Diesel sell gen sets made with engines or generators from China or India? No, although we have nothing against these countries or the people who live and work there, we do not use their products in our systems. Trust me, we have tried all of them and there are many problems associated with Diesel engines and generator sets from those nations. Why do some companies advertise slow Diesels generators with RPM alternators on them? Belt-drive, in itself, is okay if properly tensioned, however we would never couple a slow Diesel to a RPM alternator because they are capacitor-regulated and often fail. Capacitor-regulated alternators also have a very low motor-starting ability. We recommend you avoid these types of Diesel generator sets and the companies who sell them. Most gas and even some Diesel generators run at RPM. This is considered high speed throw away generators. Initial cost on these is low however they wear out quick and are not worth fixing. We only sell Diesel generators that run at RPM. Diesel generator kW produced from RPM engines and generators last almost indefinitely. That is why they are sometimes referred to as investment grade. I live in another country will your Diesel generators work in my country? Yes, click here for world voltage frequency chart by country we can configure your unit for any voltage and frequency needed anywhere in the world.

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