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How Diesel Engines Work Freedomcar

gasoline and diesel engines, energy is
released in a series of small explosions
(combustion) as fuel reacts chemically

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with oxygen from the air. Diesels differ from gasoline engines primarily in the way the explosions occur. Gasoline engines start the explosions with sparks from spark plugs, whereas in diesel engines, fuel ignites on its own. Air heats up when it's compressed. This fact led German engineer Rudolf

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The basic difference between a diesel
engine and a gasoline engine is that in a
diesel engine, the fuel is sprayed into

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the combustion chambers through fuel injector nozzles just when the air in each chamber has been placed under such great pressure that it's hot enough to ignite the fuel spontaneously. Following is a step-by-step view of what happens when you start up a diesel-powered vehicle.

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**How Do Diesel Engines Work? -
dummies** The Basics Engine

Diesel's story actually begins with the invention of the gasoline engine.

Nikolaus August Otto had invented and patented the gasoline engine by 1876.

This invention used the four-stroke combustion principle, also known as the "Otto Cycle," and it's the basic premise

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for most car engines today.

The Basics Engine **How Diesel Engines Work | HowStuffWorks**

There are many reasons diesel is still not a significant player in the American passenger car market and most of these reasons are economic. Because diesel engines are costlier to build, sticker

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prices are higher—you can expect to pay at least a \$2,000 premium. Diesel engines also cost more to repair, and diesel cars usually cost more to insure.

How Does a Diesel Engine Work | Family Handyman

Learn about the basic components and the working of an four stroke automobile

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Diesel engine. Part 2 (Stages of
Combustion)

<https://www.youtube.com/watch?v=Ha...>

How Diesel Engines Work - Part - 1 (Four Stroke Combustion ...

Engines need air (namely oxygen) to burn fuel. During the intake stroke, valves open to allow the piston to act

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like a syringe as it moves downward,
drawing in ambient air through the
engine's...

How a Car Engine Works - Car Engine Explained in Plain English

In a diesel engine, ignition is achieved
by compression of air alone. A typical
compression ratio for a diesel engine is

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20:1, compared with 9:1 for a petrol engine. Compressions as great as this heat up the air to a temperature high enough to ignite the fuel spontaneously, with no need of a spark and therefore of an ignition system.

How a diesel engine works | How a Car Works

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In diesel engines, internal combustion results in expansion of high-temperature, high-pressure gases, which in turn move pistons, transforming chemical energy into mechanical energy. In 1919, Clessie Lyle Cummins founded Cummins Engine Company to improve diesel technology and produce the world's finest engines.

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How a Diesel Engine Works | Cummins Inc.

The diesel engine, named after Rudolf Diesel, is an internal combustion engine in which ignition of the fuel is caused by the elevated temperature of the air in the cylinder due to the mechanical compression (adiabatic compression);

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thus, the diesel engine is a so-called
compression-ignition engine (CI
engine). This contrasts with engines
using spark plug-ignition of the air-fuel
mixture, such ...

Diesel engine - Wikipedia

Geoffrey Davies, in Materials for
Automobile Bodies (Second Edition),

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2012. 4.3.2 FreedomCAR program. The following is a summary by Dr. J. Carpenter, former Automotive Lightweighting Materials Director at US DOE's Office of FreedomCAR and Vehicle Technologies (FCVT).. FreedomCAR is a partnership between the US Federal Government's Department of Energy (USDOE) i and the United States ...

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Freedomcar - an overview | ScienceDirect Topics

Like a gasoline engine, a diesel engine usually operates by repeating a cycle of four stages or strokes, during which the piston moves up and down twice (the crankshaft rotates twice in other words) during the cycle.

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How do diesel engines work? - Explain that Stuff

Gasoline engines are much closer to a 1:1 ratio. The reason why diesel engines produce so much torque stems from three key things: 1) boost created by the turbocharger, 2) stroke, and 3) cylinder pressure. At the present time,

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production diesel engines see 25 to 35
psi of boost straight from the factory.

A Beginner's Guide To Understanding Diesel Engines - Power ...

Why EGR systems exist? Why do we have VGT turbos? I hope this helps you understand the emissions requirements.

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Follow on to my site to find
troubleshooting and...

Diesel Engine EGR Explained - YouTube

The diesel engine makes 3,200 horsepower, and the generator can turn this into almost 4,700 amps of electrical current. The four drive motors use this

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electricity to generate over 64,000 pounds of thrust. There is a completely separate V-12 engine and generator to provide electrical power for the rest of the train.

How Diesel Locomotives Work | HowStuffWorks

During the big oil crisis in the 1970s,

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European car companies started advertising diesel engines for commercial use as an alternative to gasoline. Those who tried it out were a bit disappointed -- the engines were very loud, and they would arrive home to find their cars covered from front to back in black soot -- the same soot responsible for smog in big cities.

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Diesel Improvements and Biodiesel | HowStuffWorks

There have been countless advances in diesel engines since they started being used in cars and trucks. Diesel reliability is amazing, with engines getting 500,000 miles without a rebuild on a regular basis. Turbocharging has given

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diesel engines more power so that cars and trucks will have better acceleration.

How Does a Diesel Engine Work? - LiveAbout

A significant difference between a turbocharged diesel engine and a traditional naturally aspirated gasoline engine is the air entering a diesel engine

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is compressed before the fuel is injected.
This is where the turbocharger is critical
to the power output and efficiency of the
diesel engine.

How a Turbocharger Works | Cummins

One difference is that diesel engines
have a compression-ignited injection

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system rather than the spark-ignited system used by most gasoline vehicles. In a compression-ignited system, the diesel fuel is injected into the combustion chamber of the engine and ignited by the high temperatures achieved when the gas is compressed by the engine piston. Unlike the emission control systems on gasoline vehicles,

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many diesel vehicles have additional
aftertreatment components that reduce
particulate ...

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