

TYPES OF ENGINES

This page includes interactive exercises to help you learn about different types of engines and improve your reading and listening skills



PREPARATION TASK

Do the match up exercise.

- | | |
|------------------------|--------------------------------------|
| 1. gasoline | a. нагреваться |
| 2. fuel injection pump | b. бензин |
| 3. heat up | c. коэффициент сжатия |
| 4. compression ratio | d. обслуживание, эксплуатация |
| 5. biodiesel | e. свеча накаливания |
| 6. maintenance | f. топливный насос высокого давления |
| 7. durable | g. биодизель |
| 8. glow plug | h. долговечный |

READING

Read the advice column from "Car and Driver" magazine. Then, choose the right answers.

- What is the purpose of the column?
 - to explain the process of combustion
 - to compare different types of engines
 - to show ways to use less fuel
- How is a gasoline engine different from a diesel engine?
 - A gas engine releases more pollutants
 - A gas engine has a smaller fuel injection pump
 - A gas engine uses spark plugs for ignition
- Which of the following is NOT a feature of a diesel engine?
 - Air and fuel mix before entering the chamber
 - It is more durable than a gasoline engine
 - It doesn't burn as clean as a gasoline engine
- Which of the following is NOT a benefit of biodiesel?
 - It is cheap
 - It is less polluting
 - It provides better fuel economy

CAR AND DRIVER

Q: Dear Mechanic, I want to buy my first car. I know some engines run on **gasoline** and others run on diesel. What's the difference?

-Todd, Yorkshire

A: Both types of engines have combustion chambers. However, the diesel engine doesn't have a spark plug. Instead, it uses hot, compressed air to ignite the fuel. The air enters the chamber first. Then the **fuel injection pump** forces fuel into the chamber. Some have precombustion chambers or **glow plugs** that **heat up** the air to increase efficiency. In gasoline engines, on the other hand, fuel and air are mixed before entering the chamber, though most use a fuel injection pump as well. Diesel engines also have a higher **compression ratio**. Diesel has a bad reputation because it doesn't burn as clean as gasoline. New clean diesel is much less polluting. And **biodiesel** offers a sustainable fuel option. It's more expensive than gasoline, but provides better fuel economy. Another thing to remember: diesel engines require less **maintenance** and are more **durable**.



LISTENING

Listen to a conversation between a buyer and a salesperson. Mark the statements as True or False.

1. The salesperson is male.
☐ True ☐ False
2. The man owned a diesel powered car before.
☐ True ☐ False
3. He is interested in diesel engines because they are more fuel efficient.
☐ True ☐ False
4. Diesel fuel is not very expensive.
☐ True ☐ False
5. The man is worried that diesel engines are not eco-friendly.
☐ True ☐ False
6. New diesel engines produce less pollution.
☐ True ☐ False

Listen again and complete the conversation.

Salesperson: Welcome to World Autos. What can I do for you?

Buyer: I'm thinking about buying a car with a _____ engine, but I'm not sure if it's for me.

Salesperson: Well, what attracted you to diesel engines in the first _____?

Buyer: I've heard they're more fuel _____.

Salesperson: That's their main _____. A downside is that fuel costs _____.

Buyer: But the increased fuel efficiency makes up for that, right?

Salesperson: Absolutely, another plus is that diesel engines are more _____.

Buyer: That should save me money on maintenance in the long _____.

Salesperson: Sure, you don't have to take them to the _____ as often.

Buyer: That's good, though I am concerned that they're _____ engines.

Salesperson: Not the newer ones. Some can even run on biodiesel.