

What is special about E5 bio-finisher RON 92?

Currently, E5 gasoline is being widely circulated throughout the country. However, most people still have little interest in and understanding of this type of fuel. So what is the nature of E5 gasoline? And how is the use of this fuel?

Starting from 1/1/2018 E5 bio-gasoline will officially replace completely for RON 92 gasoline which is very popular in Vietnam market, this means whether you want or not you must use E5 biofuel use poured into the car. According to the concept, E5 is one of the bioethanol mixers and in the world there is a lot of gasoline-alcohol mixing ratio as well as being popular for a long time. It is this concept that makes many users feel confused and do not know whether this E5 petrol quality ensures safety for the engine of the car. To answer questions about this E5 petrol, the following article will detail you.

1. What happens when fuel is mistaken for a vehicle?

1. What is E5 petrol and why is it E5?



Referring to RON 92, 95 is probably no stranger to this type of gasoline, essentially these two types of gasoline are mineral or pure gasoline taken from fossil fuels. Fossil fuels contain high levels of carbon and hydrocarbons - formed by anaerobic decomposition of dead organisms buried more than 300 million years ago. Products made after burning fuels include CO₂ and CO - gases that are very harmful to the environment. Gasoline is an essential part of everyday life and many economic countries rely heavily on gasoline. RON 92 gasoline is produced from fossil fuels, over time the mining has gradually become exhausted, and when the fuel runs out, it is imperative that people search for another fuel to replace. In what fuel is found, perhaps Ethanol is the best fuel to replace gasoline today.

As for E5, it is a simple fuel that contains 5% of the bio-ethanol (ethanol) content and 95% of the volume is traditional gasoline (mineral gasoline: petroleum derived from petroleum). This fuel is researched by scientists and proved to be perfectly suitable for use with existing engines.

The use of bioethanol Ethanol mixed into gasoline is no longer strange to many countries in the world. In order to produce E5 bio-petrol products, 5% of ethanol is used with 95% of petroleum. In addition to E5 gasoline, many countries in Europe and the United States have used higher-proportioned gasoline such as E10, E25, even in Sweden, E85 gasoline has been used. To get the product is E85 gasoline, we will mix 85% of ethanol and only 15% of mineral gas. The fact that our country is not using E5 until 2018 is considered to be behind the era, because this type of gasoline was used by Brazil in 1931, and now they are using E18 to E25.

Many countries in the world today such as Colombia, Jamaica, Philippines, Thailand, Finland and many US states have forced people to use E10 gasoline. E10, also called Gasohol, is the most popular blending rate and is used by many countries including the US because there is no need to adjust the engine's design and still use it.

2. What is Ethanol?



Ethanol is considered bioethanol, which means that it also has the same combustion heat as gasoline. You may ask why you have to mix gasoline with alcohol, the answer is bioethanol helps limit dependence on fossil fuel sources, as well as limit harmful emissions to the environment. In addition, alcohol is an easy-to-produce fuel and much cheaper than gasoline. Ethanol is mainly produced from biofuels (biofuels) which are fuels formed from compounds of plant and animal origin that are derived from animal and plant fat (animal fat, coconut oil .); cereals (wheat, corn, soybeans .); Processing from agricultural wastes (straw, straw, feces .); Processing from industrial waste products (sawdust, waste wood .) these materials are almost advantages of Vietnam and the agricultural country when prioritizing the development of cassava, maize and rice in the vision to 2020 .

Although ethanol has many advantages, it is not without drawbacks. Ethanol, despite its octane index, is a higher index of anti-knocking fuel in the combustion chamber than mineral gas, but it contains less energy to produce heat than gasoline.

3. Fuel consumption of E5 compared to A92



This is a problem that many people care about. In fact E5 gasoline is blended between ethanol and mineral gasoline, which increases Octane index and makes fuel burn more thoroughly.

Some of the major automobile manufacturers in the world are clearly stated in the Handbook to use the compatibility of unleaded gasoline containing 10% or more denatured fuel ethanol for engines and Ensure full warranty benefits for vehicle users.

Some major automakers such as General Motors, Ford, Daimler, Infinity, BMW, Lexus, Nissan, Subaru and Toyota . also recommend users to use gasoline containing up to 10% ethanol to increase vehicle performance. and reduce emissions, improve air quality.

Many countries around the world have used the E20, even in Brazil, they produce a car that uses fuel E100 (ie 100% ethanol) to increase the efficiency of the engine.

Therefore, fuel consumption level of E5 is better than that of A92 petrol.

4. Using E5 bio-petrol can affect the engine of the car



The answer is no. The use of E5 gasoline will not make your car engine affected. However, according to the recommendations from suppliers, the E5 bio-petrol is not suitable for older vehicles with gasoline-powered engines, non-genuine spare parts, and vehicles without clear origin. . Vehicles with over 10 years of use with aging fuel pipes, leaks should not use this fuel, as ethanol in ethanol can affect rubber and plastic gaskets, Metal of engine.

Does the continuous conversion between RON 92 and E5 cause any damage to the engine? The answer is no. By fact E5 bio-petrol is produced on a platform that puts ethanol into traditional gasoline. E5 gasoline is prepared from 95% A92 gasoline and 5% anhydrous ethanol. So you can safely use it without having to worry about fuel to damage your car.

5. E5 or RON 95



Whether to use E5, whether you want it or not, you have to use it in parallel with A95. Common motorcycles with lower 11: 1 compression ratios such as Dream, Wave, Nouvo, Hayate are recommended to use A92 without enough to require A95 because higher is also ineffective and costs money. Those who are pouring A92 are still comfortable using E5. For Honda, Piaggio or cars with large scooters recommended to dump A95, it is recommended to dump A95 because it has a higher Octane number than E5. To make it more clear, you should dump E5 or A95 that you still wonder, then refer to the instructions attached when buying a car or contact the manufacturer. In addition, due to demand stimulus or government policy that E5 is cheaper than A92, economically, we will benefit somewhat when it is cheaper. Hopefully this article will partly help you better understand E5 and the questions surrounding it.

6. E5 biogas is cheaper than regular gasoline

Normally E5 gasoline price is cheaper than RON gasoline price 92. At the present time (December 16, 2017), E5 RON 92 bio-petrol price is VND 18,240 / liter, while RON 92 gasoline price is VND 18,580 / liter and RON 95 is VND 19,280 / liter. Thus, it can be seen that the price of E5 is lower than the remaining types of gasoline.

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