

Five main problems with Ethanol

Since the release of E10 fuel, its benefits have been widely praised. But like most solutions, there is a negative side.

Here are some of the associated problems.

Problem 1:

Ethanol is a powerful solvent that loosens and releases accumulated deposits that have built up on the internal walls of the fuel tank and engine.

This debris can drop into the fuel resulting in clogged filters, injectors and carburetors.

Problem 2:

Ethanol is an alcohol which attracts and absorbs water into the fuel.

Excess water in E10 causes Phase Separation and by excess, we mean as little as one teaspoon of water in one litre of E10.

The fuel separates into two distinct layers – a thick layer of petrol mixed with a little ethanol on top and a thinner layer of water with the remaining ethanol on the bottom.

The engine runs rough, stalls and can cause internal damage such as corrosion and rust to engine components.

Problem 3:

E10 fuel has reduced shelf-life – it lasts up to 90 days under ideal conditions.

This applies to vehicles with a closed tank.

Classic cars with vented tanks will find the product life greatly reduced to around 40 days.

For these owners, this means replacing the fuel by driving or draining it about once a month depending on humidity and temperature conditions.

Problem 4:

Ethanol does not produce as much energy as petrol resulting in a loss of power of up to 20%.

E10 fuels often give decreased performance, reduced throttle response and reduced fuel economy.

Problem 5:

Ethanol in fuel can cause internal parts damage and corrosion of metal parts in the fuel system.

It can dry out, stretch and crack rubber hoses, seals and gaskets as well as damage rubber and plastic parts of the fuel system.

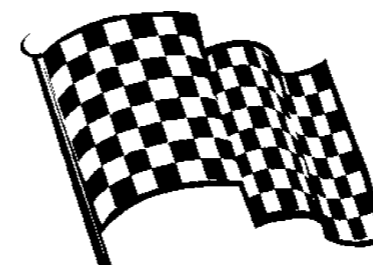
What Motorists Say

Of 50 motorists who responded to an on-line survey asking for their comments on their use of E10, 25 responded negatively, 24 positively and 1 reported no change.

50% had problems!



Welcome to our enlightening newsletter!



Workshop News – 20 Years in Business

Xmas party at Anna Bay

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Helpful Tips – 5 Main problems with ethanol

Workshop News

20 Years in Business!

In October 2010, we celebrate 20 years in business as Land Rover and Range Rover Specialists on Sydney's Northern Beaches! Wow!

What an amazing journey, the most memorable part of it being the wonderful people we have met along the way.

Our longevity is mostly due to lots of loyal customers, honest and committed staff and adherence to good business principles and values.



Kim and Richard Ayers

Need Technical Advice?

If you have any technical queries and need advice or have any concerns regarding your car or 4WD, Richard is available to speak to you.

As Senior Technical Advisor, he is interested in all technical matters, so please don't hesitate to call.

If your car is running rough, check you are putting in the correct fuel.

We have had several instances of customers using 91 octane unleaded or E10 in European cars that require 95 or 98 octane. If in doubt check your owner's manual.



Fun at Stockton Beach

The sand dunes at Anna Bay's Stockton Beach are just incredible! They stretch for miles, an amazing 32 kilometres in fact.

This was our playground when we took our staff for an overnight stay at "The Retreat" and a staff Christmas party.

Activities included sand board riding down the steep dunes, 4-wheel bike riding and motor bike riding.

Mark and Richard returning from a bike ride won most unusual photo of the weekend!

The Ethanol mandate

The Biofuel Mandate

In 2007, the Biofuels Act mandated the use of ethanol-blend fuels to help reduce greenhouse gas emissions and to decrease our reliance on fossil fuels.

This Act and the Amendment Bill of 2009 authorized gradient increases of ethanol in petrol. By July 2011, all regular grade unleaded petrol (ULP) sold in NSW must contain the full 10% ethanol (E10).

This applies to about 60% of all vehicles on the road.

Vehicles whose manufacturers have advised against using ethanol-blend will use the higher octane and higher priced Premium Unleaded Petrol (PULP).



road. In addition, Biofuel production facilities will create hundreds of new jobs in regional areas.

Ethanol and Soaring Food Prices

A report leaked by the World Bank in April 2008 argued that the drive for biofuels by American and European governments has pushed food

in price within a year, the Mexican people went out on the street in protest.

The price of meat and eggs has been affected because animal feed such as poultry and pork is largely made up of corn.

Added Risks with Ethanol Production

Here in Australia the ethanol mandate is costing taxpayers \$200 million per year nationally and a hike in food prices can be expected as larger quantities of wheat grain are diverted toward ethanol production. In addition to this, substantial amounts of water are needed for the production of ethanol.

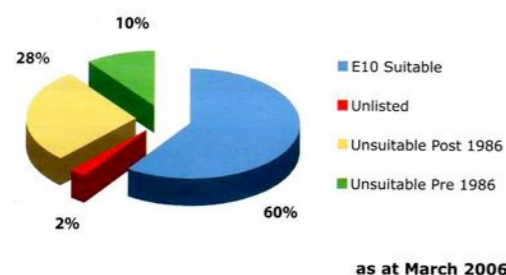
Enormous demands will be placed on our farmers to produce significant quantities of wheat grain. So the questions that come to mind are, what happens if there is a water shortage, drought or flood? What if crops fail due to extreme weather conditions? With the country scarcely out of a seven year drought, record level floods presently washing up Queensland and recent severe storms wiping out whole fruit plantations, there is every

prices up by as much as 75% since 2002.

In the USA, the extra demand for corn-based biofuel caused the food allocation of corn to become stretched, pushing corn prices way up.

This then affected all corn products such as corn syrup used in soft drinks and corn tortillas. When tortillas doubled

Australian Fleet Analysis For E10



Diesel powered vehicles will use 5% ethanol – blend (Biodiesel) which is the maximum allowance for most vehicle warranties.

The NSW Government estimates the above changes will reduce carbon dioxide emissions by 450,000 tonnes per year, the equivalent to taking 1900 buses and trucks and 77,000 light vehicles off the

Hidden truth about oil

likelihood that these extreme weather conditions will continue into the future.

An undersupply of grains is a very real threat, pushing fuel and food prices up even further just as is happening elsewhere.

Hidden Truth About Oil

Now here is an interesting discovery which we haven't heard anything about!

In 1947, a team of top Russian scientists and engineers who were part of a secret task force, were ordered by Stalin to find out; what oil is, where it comes from and how to find, recover and efficiently refine it, after reports that Russia's petroleum reserves were greatly limited.

By 1970s, having drilled to depths of 40,000ft (7 miles), these experts had discovered that, **oil is not a fossil fuel but a natural product of planet earth!**

That oil comes about through high-temperature, high-pressure continuous reaction between calcium carbonate and iron oxide.

This reaction occurs at a depth of 100km and the high pressure causes oil to continually seep up along fissures in the earth's crust into subterranean caverns



which we call oil fields. They found that oil is continually being produced in great abundance and is a sustainable resource.

The Russian engineers drilled in many different locations and discovered that oil is not made up of biological matter i.e. remains of plants and animals which can be found near the earth's surface up to 18,000ft.

It comes from geological matter, part of the earth itself and is a renewable source. From 60 oil wells drilled, 37 became commercially productive, a 62% success rate compared to the 10% success in the USA.

So why haven't we been told this? Well it seems that the West chose to ignore it.

One could speculate that scarcity fetches a much higher price than something which is in huge supply.

And it is difficult to control or manipulate something which is

in great abundance and a sustainable resource.

In 2007, the Russians were the world's second highest producers of oil with 9.9 million barrels a day just behind Saudi Arabia's 10.2 million barrels but recent rumors say Russia is now the world's highest producer!

You can google "Oil is not a fossil fuel" or go to Amazon.com and check out "The Deep Hot Biosphere" by Thomas Gold.

So What About Global Warming?

Alright, so what if oil is renewable, we still have the problem of greenhouse gases causing global warming!

"We disagree!" say over 30,000 scientists around the world, including 9,000 PhDs. They say, "There is no convincing scientific evidence that human release of carbon dioxide, methane or other greenhouse gases is causing, or will cause in the foreseeable future, catastrophic heating of the earth's atmosphere and disruption of the earth's climate."

See www.petitionproject.org or for more information read "Heaven and Earth" by Australia's top geologist Professor Ian Plimer.

