



ETHANOL FUEL

THE GOOD, THE BAD, AND THE UGLY



WHAT IS ETHANOL

- Ethyl Alcohol
- Same type of alcohol used in alcoholic beverages except ethyl alcohol used for fuel has additives to make it non consumable.
- Typically made from fermenting corn.
- One acre of corn will produce approx. 328 gallons of ethanol.
- By volume ethanol contains approx. 1/3 less energy than gasoline.
- E10, E15, E85 - Number after the “E” is the % of ethanol in the fuel.



IS ETHANOL BAD FOR YOUR ENGINE?



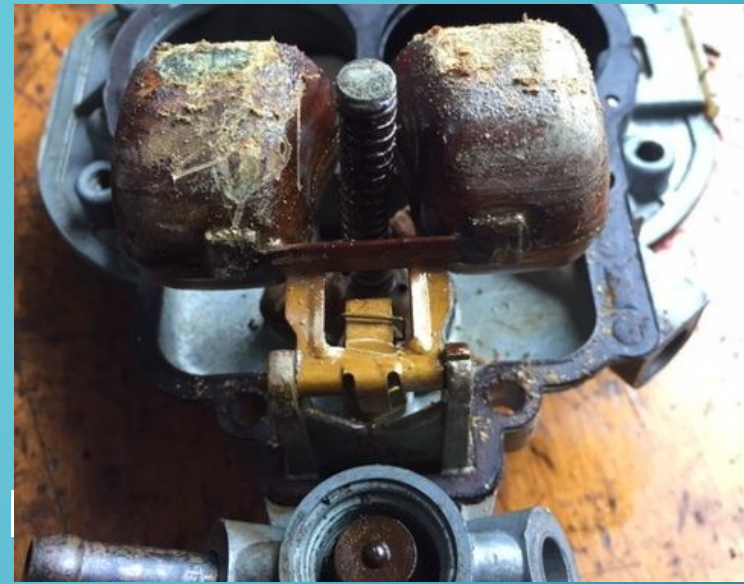
- Ethanol attracts and absorbs water including moisture from the atmosphere, it is considered hydroscopic.
- If a car sits long enough fuel separation occurs and due to SG water will sit at the bottom of the tank.
- Remember ethanol is alcohol and alcohol can cause corrosion in the fuel systems. Can erode rubber hoses, plastic fuel lines and contributes to rust in steel tanks.
- Ethanol cuts the efficacy of lubrication from gasoline and oils.

THE GOOD

- Ethanol is resistant to pre-ignition
- E85 is like 105 octane
- If you are not worried about fuel economy and have a high compression engine and you need precise ignition timing (you have a race car) than use more ethanol fuel
- Ethanol burns cleaner than gasoline, less CO & CO₂, less hydrocarbons in the air.
- Cuts cars greenhouse gas emissions. Each year we lower the greenhouse gas emissions by 2 million tonnes or equivalent of removing 400,000 cars



THE BAD



- Starting in 2022 Non-Ethanol fuel is no longer available anywhere in Canada which includes marine fuel. Government of Canada Clean Fuel Regulations
- Goal is to achieve Net-Zero emissions by 2050
- Currently minimum ethanol is 10%, 11% in 2025, 13% in 2028 and 15% in 2030
- E10 fuel reduces fuel economy of up to 3 miles per gallon.

SO WHAT CAN BE DONE

- Replace existing fuel lines with ethanol-resistant hose or nylon tubing.
- Install a water separator filter in the fuel line leading to the carburetor.
- Clean existing fuel tanks
- Keep tank as full as possible to prevent air space where condensation can form
- Use specific ethanol-compatible fuel storage additives which are normally blue in colour.
- Sign the petition to bring back high octane E0 gas (<https://www.pure-gas.org/>)

