

# THE RESULTS ARE IN!!

## We Tested Premium E30 in 40 Different Vehicles and the Results Prove...

- ✓ Over 1 Million Gallons of E30 Sold in Watertown since May 2016
- ✓ Over 80,000 Test Miles Driven
- ✓ Over 20 Million Consumer Miles Driven
- ✓ On Average Maintained or Increased Fuel Mileage
- ✓ \$3 - \$5 per Tank Fuel Savings
- ✓ No Check Engine Lights
- ✓ No Mechanical Issues
- ✓ Increased Horsepower



### E30 CHALLENGE TEST VEHICLES:

2013 Ford C Max Hybrid	2005 Toyota Avalon
2004 Chevy 2500 6.0L	2014 Chevy Cruze
2003 Chevy Silverado	2006 GMC Sierra
2010 Dodge Ram 1500	2006 Chevy Silverado
2011 Ford F150	2008 Hyundai Van
2006 Chrysler Town & Country	2015 Ford Transit Van
2005 Ford F150 5.4 L Triton	2016 Ford Escape
2010 Toyota Sienna	2016 GMC Canyon
2013 Honda Pilot	2013 Toyota Rav 4
2011 Dodge Ram 1500	2007 Dodge Charger
2015 Ford Edge	2011 Toyota Highlander
2008 Toyota Avalon	2005 Chevy Colorado
2013 Toyota Tundra	2009 Dodge Challenger
2015 Jeep Wrangler	2008 Kia Rondo
2010 Buick Enclave	2012 Dodge Avenger
2010 Dodge Journey	2012 Chevy Traverse
2015 GMC Acadia	2006 Nissan Armada
2011 Chevy Malibu	2007 Buick Ranier
2005 Chevy Equinox	2016 Lincoln Navigator
2012 Chevy Camaro	2008 Mercedes ML 350
2007 GMC Sierra 1500	

# WHAT IS THE E30 CHALLENGE?

Who would have ever thought that a little place like Watertown, South Dakota might be a trend setter for the rest of the nation? We are advocating a fundamental change in the way we fuel our automobiles.

Watertown is challenging conventional wisdom in order for biofuels like ethanol to finally realize their true potential. That conventional wisdom is that our non-flex autos can only operate on 10% ethanol blends and at most 15%. Nearly a century ago, Henry Ford recommended E30 for his higher compression automobiles, warning that the alternatives—tetraethyl lead and benzene-based aromatic hydrocarbons—provided a lower octane kick and contained dangerous cancer causing poisons and carcinogens.

Cars then and now are capable of using much higher blends and the auto industry knows it. In fact the optimum blend to maximize octane and energy content is in the 25 - 40% volume range, according to the Department of Energy.

What does this have to do with Watertown? Well, a revolution has to start somewhere and Glacial Lakes Energy is leading the "E30 Challenge" by challenging everyone to try E30.

**The goal of the E30 challenge is to change your fuel of choice to E30.**

Education and promotion is focused on the community, as well as seminars with dealerships, technical colleges, city police and fleet managers, farmers unions, and automotive mechanics. The retailers are also educated on the value of octane, clean air, and local jobs.

Are you ready for the E30 Challenge?



## FOR THE

# E30 Challenge



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# ETHANOL Kicks Gas



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## WHAT IS E30?

E30 is blend of regular gasoline and 30% ethanol. E30 is a premium fuel known for its high octane. Ethanol blends, such as E30, significantly reduce carbon deposits within your vehicle creating a cleaner and more efficient engine. E30 also reduces carbon emissions from your tailpipe and reduces the need for cancer causing additives in gasoline, like benzene. Not to mention, every time you fill up with E30 you reduce American dependence on foreign oil and support the economies of your local communities. E30 hits the sweet spot between engine performance and price. But the EPA fails to approve blends up to E30 in non-flex vehicles.



## THE TRUTH ABOUT E30

There seems to be many misconceptions and inaccuracies related to the use of higher ethanol blends in vehicles we have in our garages. Much of this has arisen due to limited information, misinformation, or just simply wild guesses coming from ill-informed individuals, industries, and governmental entities. Ethanol is a great fuel alternative, additional supplement, or blending agent for our country and it needs to be fully utilized as such.

-  E30 is a high octane, premium fuel that will be the automotive industry's DREAM in order to meet higher mileage requirements
-  E30 blends can actually INCREASE available horsepower and torque
-  E30 typically maintains fuel economy or with minimum change depending on the vehicle
-  E30 reduces harmful cancer causing carcinogens contained in gasoline
-  E30 is made right here in Watertown from the corn grown in your neighbors fields

## E30 WORKS

GLE has partnered with Andy Wicks who serves as our mechanical expert and test facilitator.

Wicks, a native of Watertown, SD, founded DynoTune Speed and Performance in Watertown, SD in 2003, a business which specializes in enhancing high performance fuel injected vehicles.

Wicks has worked on over 15,000 cars from all over the US and developed an E85 Flex Fuel conversion kit for non-flex vehicles which he has sold nation wide.

Wicks has most recently been conducting countless tests regarding E30 in non-flex fuel vehicles.

The results continue to prove how E30 can actually INCREASE available horsepower and torque, with fuel economy being maintained or slightly changed (increased or decreased depending on the vehicle).

The results also show that E30 is typically not the cause of a 'check engine' light; in reality, your vehicle more than likely has a maintenance issue that happened to appear at the same time or thereafter.

Wicks is unaware of any voided automotive manufacturer warranties caused by the usage of E30.

In fact, most vehicles built in the last 20 years have the same components and can handle higher blends of ethanol.

## TEST VEHICLES



### When Testing E30 in Three Major Full Size Pickups..

- Experienced a 30+ horsepower gain over regular 87 octane gasoline as measured on a rear wheel chassis dynamometer
- Experienced a 10% gain in power by just changing fuels
- The increase in overall power, allows the engine to do more work with less pedal effort, giving fuel economy advantages
- All engine parameters were closely monitored and no engine warning lights were triggered during the test