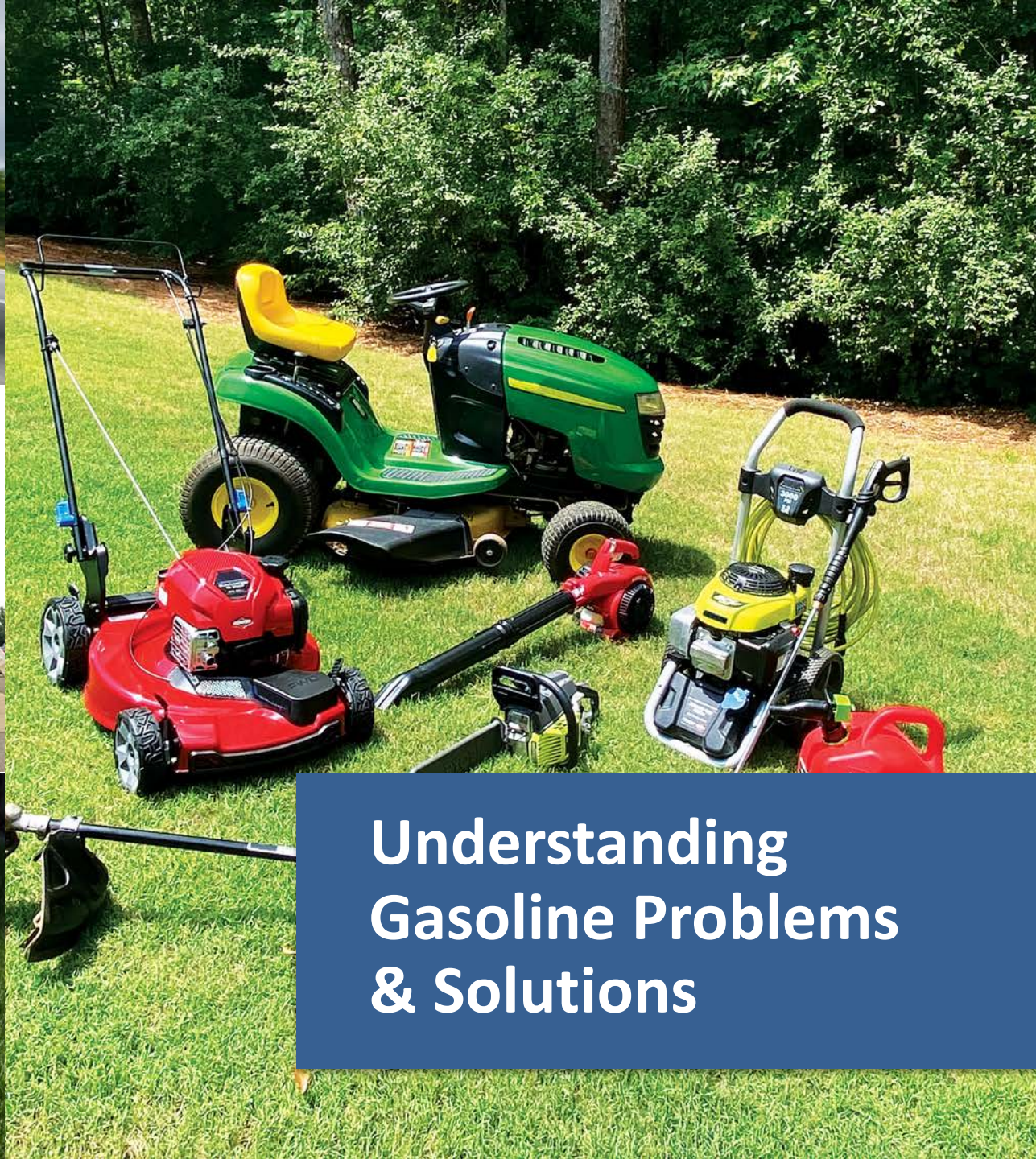




Understanding Gasoline Problems & Solutions

Gasoline is Organic and Decays Just Like Bananas



New

Bad

Bad Gas Causes Poor or Non-Running Equipment



- Pump gas with water & ethanol (contaminants) enter gas cans and equipment tanks
- Bad gas (water, gums, varnish) clogs fuel systems – equipment does not start or runs bad

The Number of E15 – E85 Pumps Keeps Growing

E15
CURRENT

700

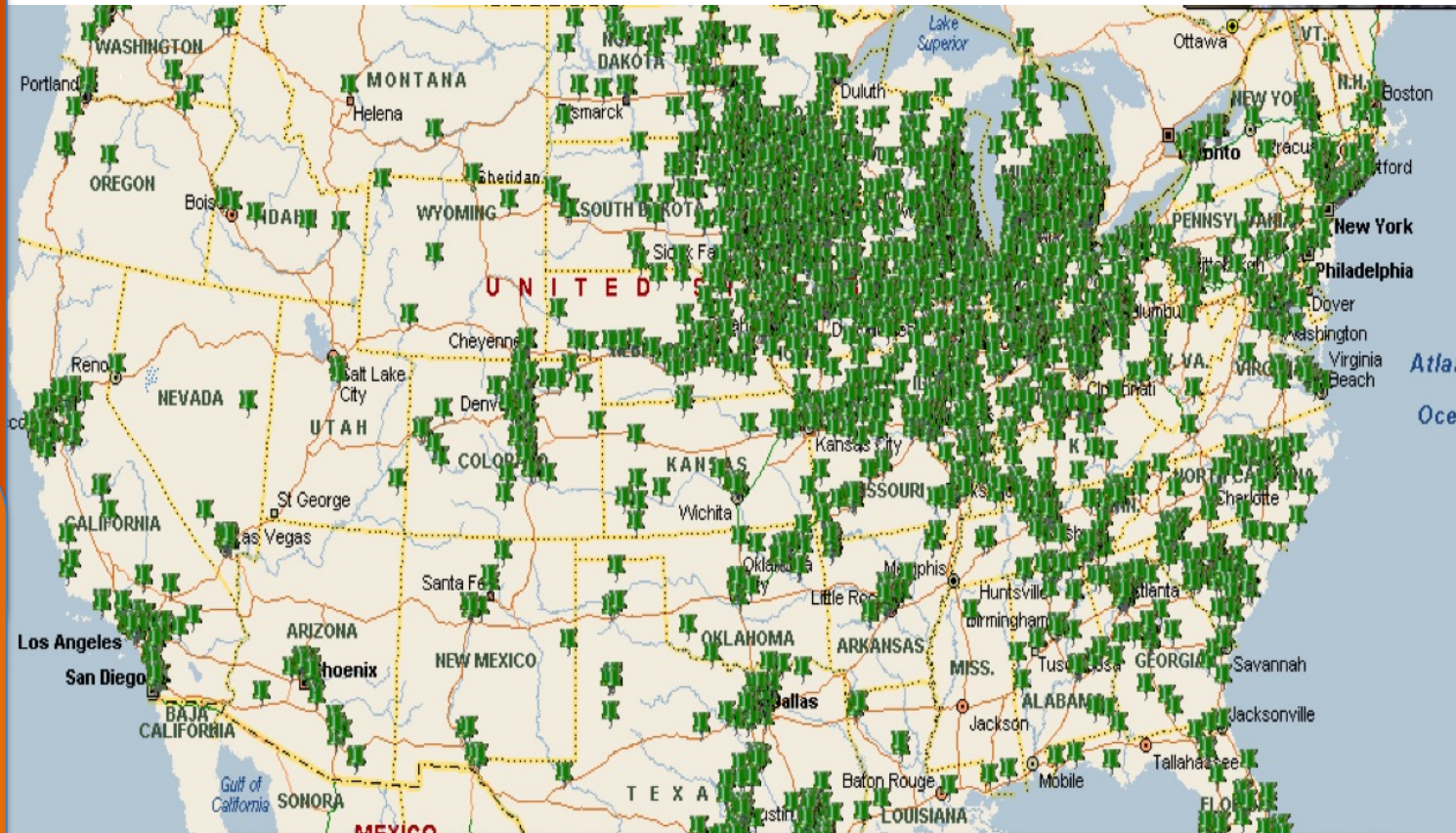
STATIONS
29
STATES

PROPOSED
1486
STATIONS

4880
PUMPS

23 STATES
2016 & BEYOND
BIOFUEL GOALS*

* US DEPT OF AGRICULTURE



E85
CURRENT

3700
PUMPS

2133
CITIES

Ethanol Already Contains Water



Ethanol

FUEL ETHANOL Product Code 017609

Specifications

ADM Fuel Ethanol meets the current ASTM D4806 "Standard Specification for Denatured Fuel Ethanol for Blending with Gasolines for Use as Automotive Spark-Ignition Engine Fuel". The ASTM specification is as follows:

Ethanol, volume %, min	92.1	ASTM D5501
Methanol, volume %, max	0.5	
Existent Gum, (solvent washed) mg/100mL, max	5.0	ASTM D381
Water Content, volume %, max	1.0	ASTM E203
Denaturant content, volume %	min 1.96 max 5.0	
Inorganic Chloride Content, mg/L, max	32	ASTM D512
Copper Content, mg/kg, max	0.1	ASTM D1688
Acidity (as acetic acid), mass %, max	0.007	ASTM D1613
pHe	6.5 to 9.0	ASTM D6423
Sulfur, mass ppm, max	30.	
Sulfate, mass ppm, max	4	ASTM D7319, D7328
Appearance	Visibly free of suspended or precipitated contaminants, clear and bright	

Additional ADM Specifications (to comply with California Air Resources Board specs)

Sulfur, ppm, max	10	ASTM D5453
Benzene, volume %, max	0.06	ASTM D5580
Olefins, volume %, max	0.5	ASTM D1319
Aromatics, volume %, max	1.7	ASTM D5580

Corrosion Inhibitor

ADM adds a corrosion inhibitor (DCI-11) to all fuel ethanol at a target treat rate of 20 pounds per thousand barrels.

ADM Fuel Ethanol will meet the requirements of the state for its intended use.

The information contained herein is correct as of the date of this document to the best of our knowledge. Any recommendations or suggestions are made without guarantee or representation as to results and are subject to change without notice. We suggest you evaluate any recommendations and suggestions independently. We disclaim any and all warranties, whether express or implied, and specifically disclaim the implied warranties of merchantability, fitness for a particular purpose and non-infringement. Our responsibility for claims arising from any claim for breach of warranty, negligence or otherwise shall not include consequential, special or incidental damages, and is limited to the purchase price of material purchased from us. None of the statements made here shall be construed as a grant, either express or implied, of any license under any patent held by ADM or other parties. Customers are responsible for obtaining any licenses or other rights that may be necessary to make, use or sell products containing ADM ingredients.

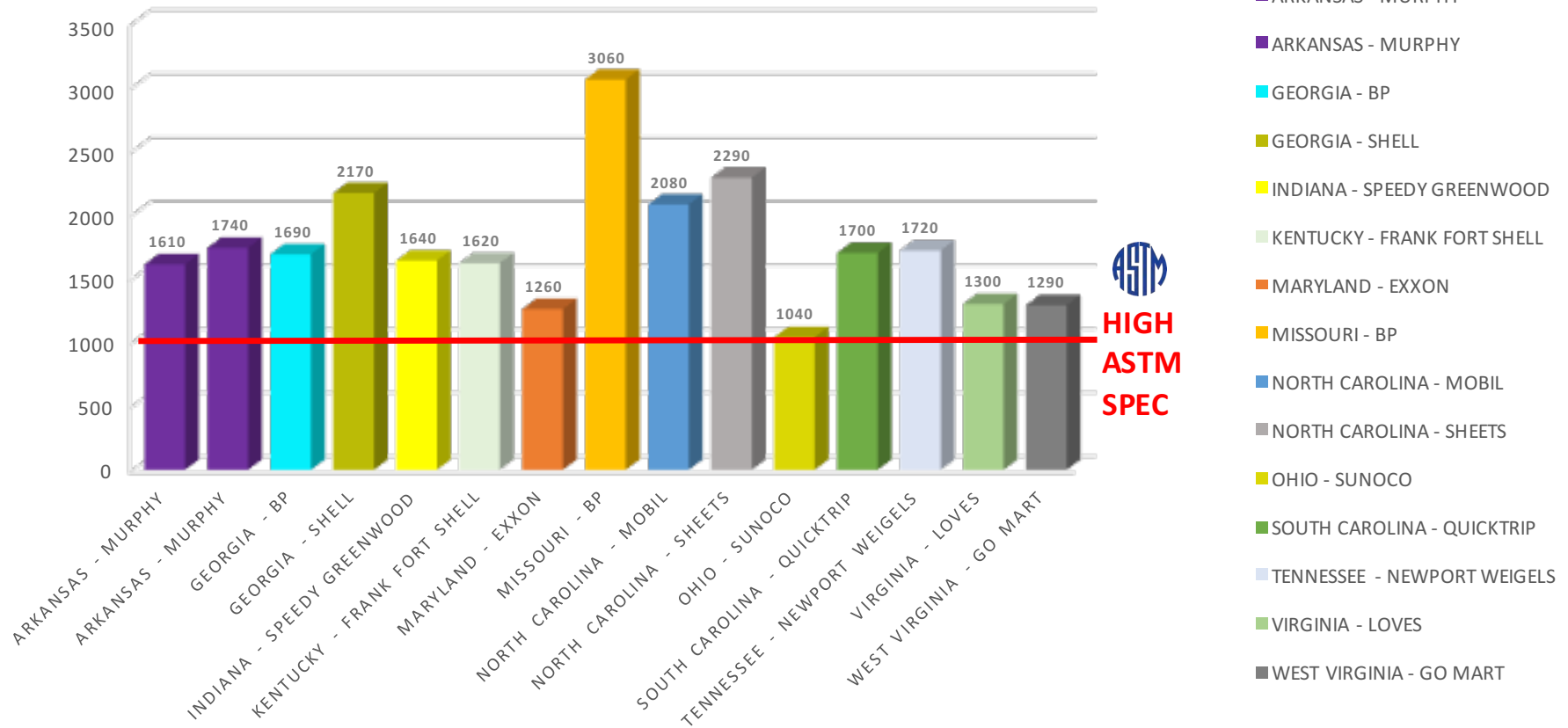
102409, V1.8

ADM Fuel Ethanol contains up to 1% water content per specifications.

This is the same fuel ethanol blended with today's modern gasoline.

Water is in Pump Gas

WATER CONTENT IN PUMP GAS

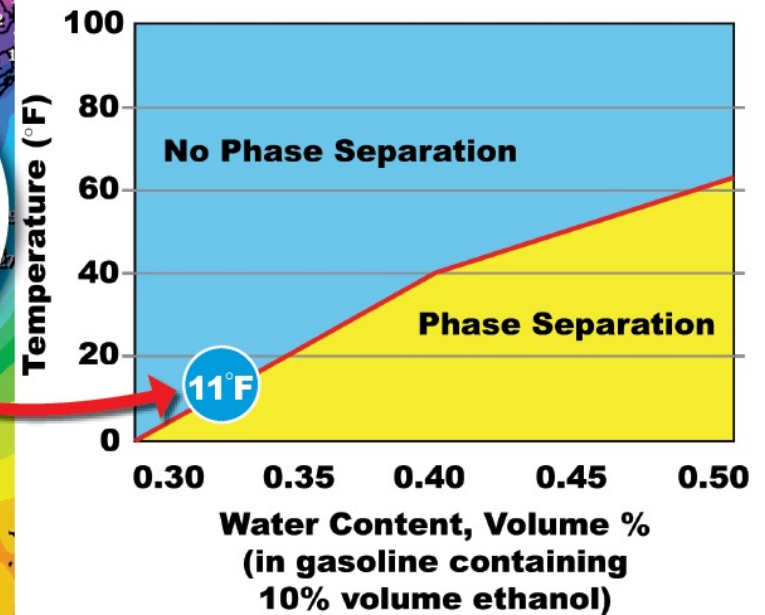
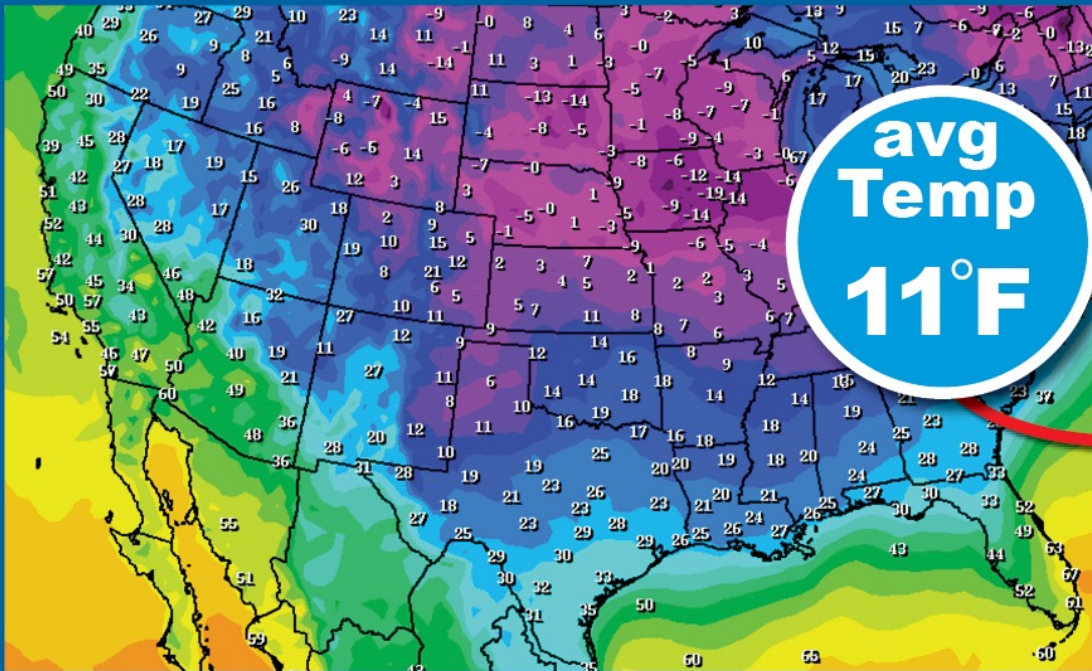


B3C Fuel Solutions obtained gasoline straight from the pump at various gasoline providers in multiple states. An ISO Certified laboratory performed a Karl Fischer analysis. Every sample contained water exceeding 1000 PPM (parts per million), the high ASTM specification for ethanol to meet fuel grade standards.

At Lower Temperatures, Less Water is required for Phase Separation (Water Separates Out of Gas and Goes to the Bottom of the Tank)

Winter Temperatures (Fahrenheit)

Phase Separation



New Gas Pumps are Confusing and Add to the Problem



91%

overwhelmingly notice
PRICE when they drive
up to the pump

71%

say they use the least
expensive grade of
gasoline when possible

B3C Gasoline Solutions Outperform Competition

TEST

For Bad Gas



FIX

Poor or Non-Running Engines



PROTECT

Engines / Equipment



TEST for Bad Gasoline

B³C



2-In-1 Gasoline Test Swabs

- FOR STANDARD & 2-CYCLE MIXED FUELS
- TESTS FOR OXIDIZED FUEL (Stale)
- TESTS FOR WATER IN GASOLINE
- KEEPS BAD GASOLINE OUT OF EQUIPMENT
- HELPS AVOID DAMAGE & REPAIRS



3 Swabs in a pack

FIX Bad Gasoline

B³C

FIX POOR / NON-RUNNING ENGINES

FIXES ETHANOL FUEL PROBLEMS

RAISES OCTANE

REVITALIZES STALE FUEL / REMOVES WATER

CLEANS CARBS & INJECTORS, NO REMOVAL

RECONDITIONS RUBBER & PLASTIC

CLEANS CARBON / VARNISH



NO ALCOHOL



AUTO / TRUCK / MARINE / POWERSPORT / SMALL ENGINE

FUEL SYSTEM CLEANER & FUEL STABILIZER

B³C

FIX & MAINTAIN ALL GAS & DIESEL ENGINES

FOR PEAK ENGINE PERFORMANCE

**NEW
DO-ALL
FORMULA**

This ultra-concentrated synthetic gasoline & diesel additive is for use in all gas, gas-ethanol blends, diesel and biodiesel blends. Just pour in the fuel tank of any 2-cycle, 4-cycle, or diesel engine to help fix & maintain your cars, trucks, boats, tractors, small engines and more. Use regularly to maintain PEAK ENGINE PERFORMANCE.

- Cleans entire fuel system so it starts efficiently and operates in top condition
- Fuel stabilizer keeps fuel fresh; protects engine, prevents problems & helps with easy starts after storage
- Superior antioxidant and anticorrosive package
- Removes varnish, shellac, carbon deposits and disperses water in the fuel system
- Helps prevent formation of fuel contaminants including gums, varnishes, sludge deposits, bacteria, fungus
- On machine carburetor, injector, & internal engine component cleaning
- Reconditions rubber and plastic components and rejuvenates rubber gaskets and seals
- Replaces lost lubrication
- Revitalizes old, decayed fuel
- Fully Synthetic



PREVENT

Bad Gasoline

B³C

BOOSTS OCTANE

VAPOR CORROSION INHIBITORS (VCI) FOR 360
DEGREE PROTECTION ABOVE & BELOW FUEL
LINE

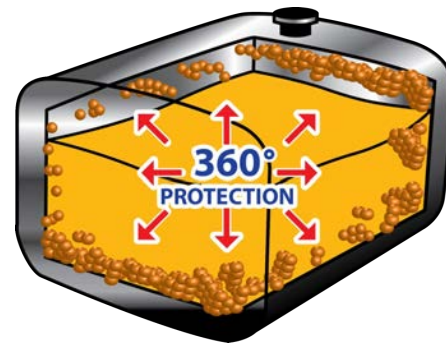
ANTICORROSION & ANTIOXIDANT FORMULA

ELIMINATES ETHANOL FUEL PROBLEMS

2 & 4 CYCLE ENGINES / ALL GAS BLENDS

REDUCES HEAT / EXTENDS ENGINE LIFE

PROTECT ENTIRE FUEL SYSTEM



NO ALCOHOL





Ethanol Shield Third Party Test Results

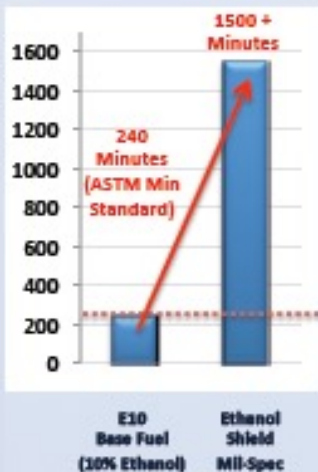


Oxidation Stability (ASTM TEST D525)

Shows time (in minutes) for fuel to become unstable (e.g. break down, form gums)

RESULT: Ethanol Shield greatly increases stabilization, more than 6X than fuel without our additives.

E10 Fuel (10% Ethanol) vs Treated Fuel



Corrosion Rating 1 - 5 (NACE Standards TEST for ferrous metals)

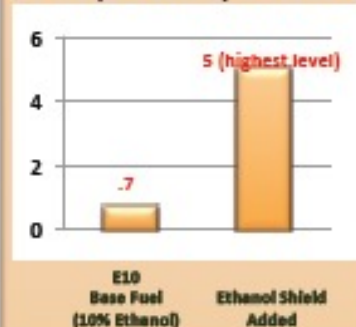
Shows the rating from 1 (poor) to 5 (excellent) of the ability to resist corrosion, per NACE standards. NACE International is the world's leading professional organization for the corrosion control industry.

RESULT: Ethanol Shield has the highest rating for corrosion resistance, vastly improving fuel's corrosion resistance beyond those without our additives.

Ethanol Free Fuel vs Treated Fuel



E10 Fuel (10% Ethanol) vs Treated Fuel



Corrosion Protection (ASTM TEST D130)

This test evaluates the degree to which a lubricant will corrode copper-containing materials (i.e. bronze, brass)

- Rates oils by immersing a prepared copper strip in the lubricant at 2 temperatures in typical range of operation.
- Ratings range from "1a" with slight discoloration, but barely noticeable (similar to a freshly polished strip), to "4c" or severely corroded, blackened and pitted.

RESULT: Ethanol Shield received the highest rating of "1a".

ASTM Copper Strip Corrosion Standards



Ethanol Shield received a "1a" rating in the ASTM D130 test.

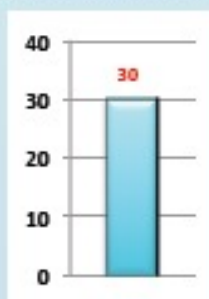
Cleaning (Nitrogen Content)

Shows the tested Nitrogen content in Parts Per Million (PPM) of our products.

Nitrogen content is an indicator of cleaning ability.

RESULT: Our additives (Top Tier Detergent) are shown to have a high Nitrogen content, known for its cleaning capability. Our targeted formulation and resulting Nitrogen content will improve cleaning capability even further.

Ethanol Shield PPM*



* PPM test results indicate 2.05 for Ethanol Shield. New formulations increase PPM to targeted results of 30.

Water Tolerance (Modified ASTM TEST E1064)

Shows % of water fuel is able to tolerate or "hold" in suspension until Phase Separation occurs.

Phase Separation is the point the ethanol and water in the fuel combine and reach a saturation point. At saturation, this mixture "falls out" and settles on the bottom of a tank.

RESULT: Our additives are proven to increase the threshold at which Phase Separation occurs, thereby helping prevent Phase Separation and its negative effects.

E10 Fuel (10% Ethanol) vs Treated Fuel

