



To: All X-1R distributors From: Nigel (Mac) McKenzie

Cc: Date 28th July 2021

Subject: WATER STABILIZER FOR ETHANOL/GASOLINE BLENDS

Our new Five in One Fuel Products are finally with us and have started to ship. The primary focus of the revised and evolved formulas is to combat Carbon Build up within the combustion chamber. We will be creating an Info-Graphic for the products which will feature this claim. However, there is a very important piece of the new product which is the Water Stabilizer.

When a Bio element is added to fuel such as B-5 or B-10 the bioethanol is by nature hygroscopic (ie attracts moisture from humid air) in fact ethanol is fully miscible in water. So the Ethanol portion of the fuel will attract moisture and when it does it will precipitate out of the gasoline mix as water and gasoline do not mix. This will rob the fuel of its potency and can lead to a range of other problems.


On the next few pages is an experiment that can be used to show how the Water Stabilizer in X-1R works by keeping the ethanol and gasoline in a homogenous mixture within the fuel tank.

Nigel McKenzie
July 2021

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WATER STABILIZER FOR ETHANOL/GASOLINE BLENDS

PERFORMANCE FEATURES

- PREVENTS ETHANOL SEPARATION DUE TO WATER CONTAMINATION
- PREVENTS HAZINESS IN NON-ETHANOL GASOLINE DUE TO WATER
- REVERSES SEPARATION IN WATER CONTAMINATED ETHANOL/GASOLINE
- PROTECTS AGAINST ETHANOL/WATER SEPARATION FOR UP TO 6-MONTHS
- KEEPS CARBURETORS & FUEL INJECTORS FREE FROM DEPOSITS
- REMOVES EXISTING DEPOSITS FROM CARBURETORS & FUEL INJECTORS
- CAN BE USED IN BOTH 2- & 4-CYCLE ENGINES
- IDEAL FOR MARINE APPLICATIONS
- CAN BE COMBINED WITH GUM STABILIZERS FOR SEASONAL STORAGE
- CAN BE FORMULATED WITH X-1R's PROPRIETARY GUM STABILIZER
- SAFE FOR USE WITH CATALYTIC CONVERTORS & OXYGEN SENSORS
- EPA REGISTERED

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WATER STABILIZER FOR ETHANOL/GASOLINE BLENDS

INTRODUCTION



- S-1 and S-2 are identical samples of a Commercial Regular Unleaded Gasoline that contains 10% Ethanol

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WATER STABILIZER FOR ETHANOL/GASOLINE BLENDS

PREPARATION FOR X-1R ADDITION



- Preparation for dosing Sample S-1 with X-1R

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WATER STABILIZER FR ETHANOL/GASOLINE BLENDS

ADDITION OF X-1R



- Sample S-1 is dosed with the recommended commercial treatment of X-1R
- Sample S-2 is not treated with X-1R

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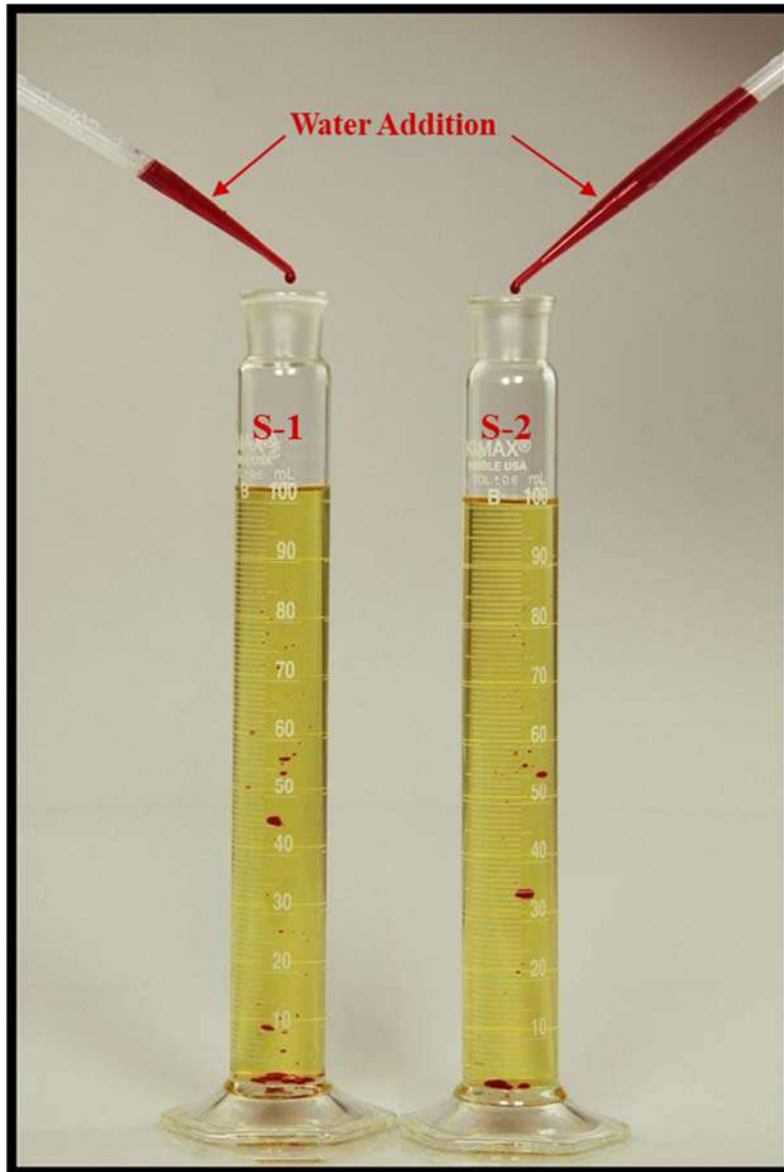


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WATER STABILIZER FOR ETHANOL/GASOLINE BLENDS

DURING ADDITION OF “Red-Dyed” WATER



- Samples S-1 and S-2 are each treated with 0.5% by Weight of “Red-Dyed” Water
- The Water was dyed red to visually enhance the photographs

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WATER STABILIZER FOR ETHANOL/GASOLINE BLENDS

AFTER ADDITION OF "Red-Dyed" WATER



- With no agitation the water droplets sink to the bottom of samples S-1 and S-2
- The above action simulates droplets of condensed moisture dripping from the top inside of a cool gasoline tank into the gasoline/ethanol mixture below

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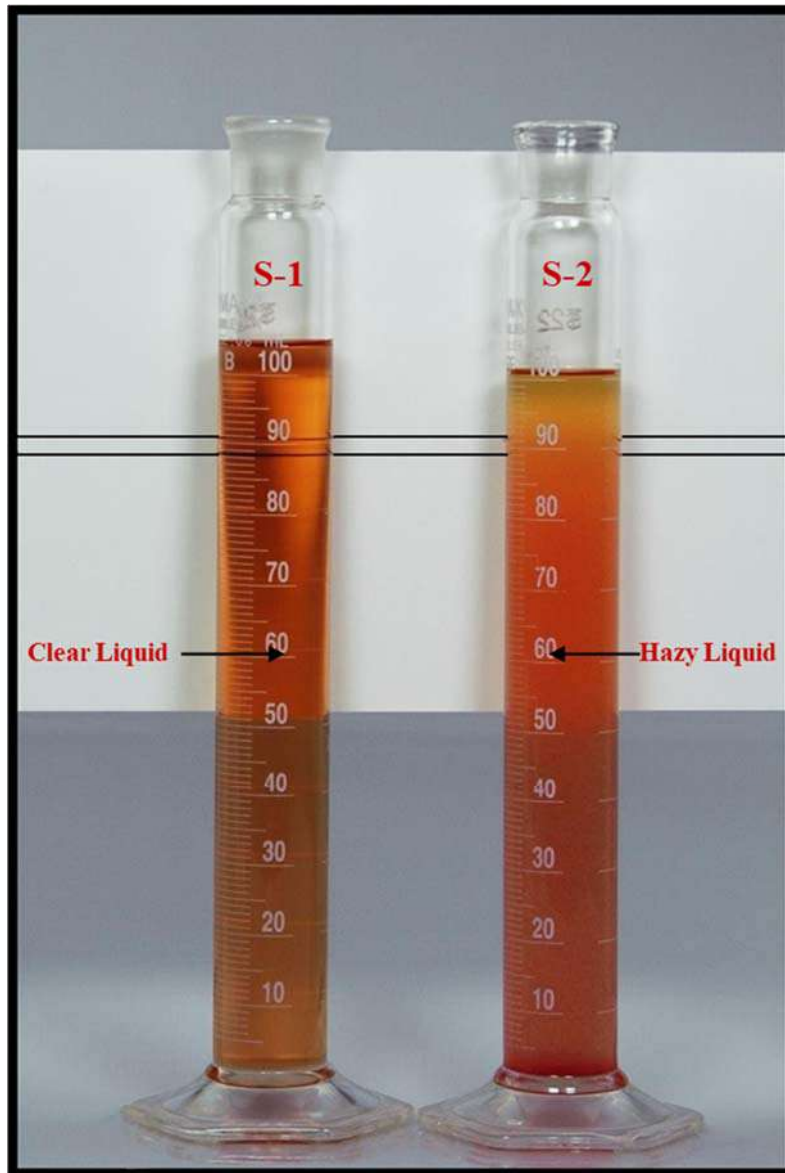
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WATER STABILIZER FOR ETHANOL/GASOLINE BLENDS

AFTER WATER ADDITION SAMPLES ARE SHAKEN



- Immediately after shaking Sample S-1 becomes clear - Note clarity of lines thru' liquid
- Immediately after shaking Sample S-2 becomes hazy - Lines not visible thru' liquid

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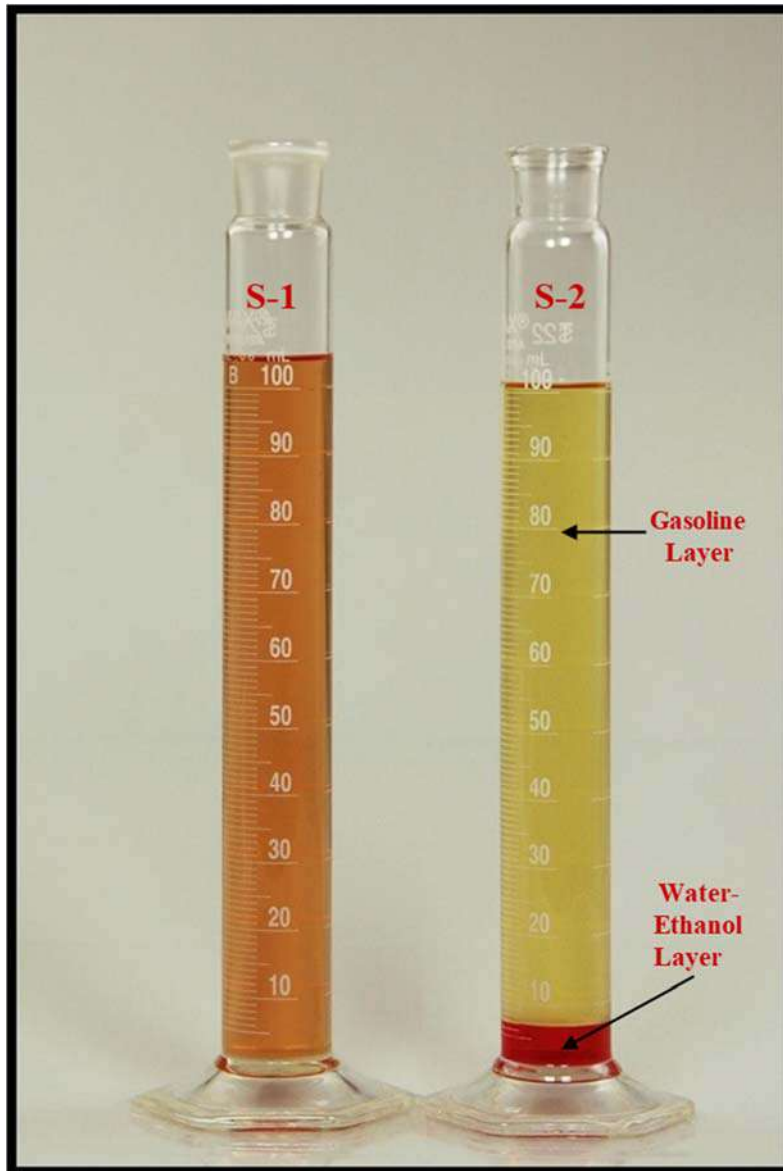
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WATER STABILIZER FOR ETHANOL/GASOLINE BLENDS

AFTER SHAKEN SAMPLES SETTLE



- After 5-minutes settling Sample S-1 remains clear and homogeneous
- After 5-minutes settling Sample S-2 separates into two layers
- NOTE: The lower Water/Ethanol layer is approximately 7% of the total volume

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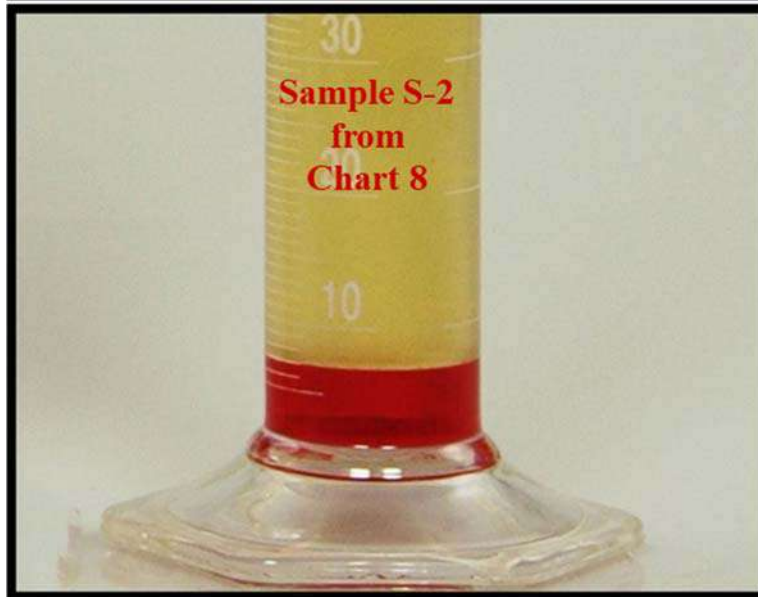
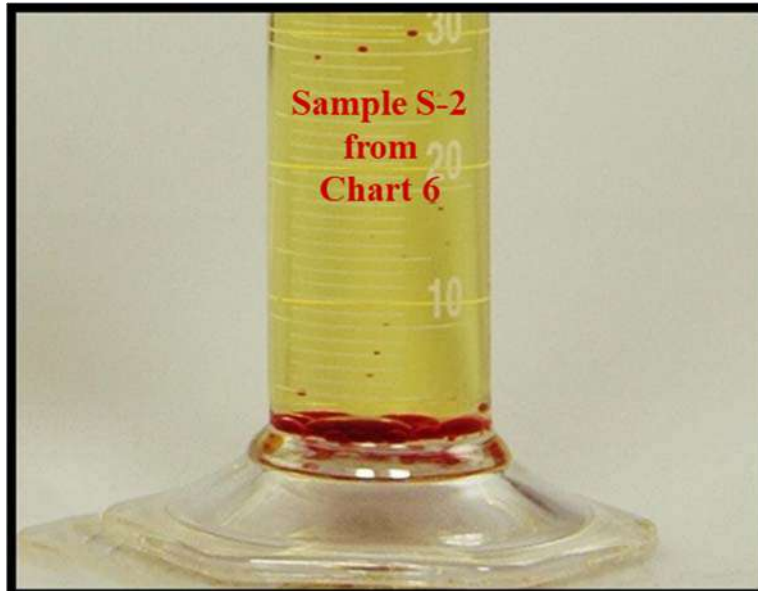
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S-2 COMPARISON - BEFORE & AFTER SHAKING



- NOTE: Only 0.5% Water removes 70% of Ethanol from a 10% Ethanol-Gasoline blend
- NOTE: The upper Gasoline layer becomes dangerously low in Octane value
- NOTE: The lower Water/Ethanol layer is very corrosive and low in Lubricity

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WATER STABILIZER FOR ETHANOL/GASOLINE BLENDS

PREPARING TO TREAT S-2 WITH X-1R



- NOTE: Sample S-1 remains completely clear and homogeneous
- NOTE: Sample S-2 remains separated into two layers

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WATER STABILIZER FOR ETHANOL/GASOLINE BLENDS

TREATMENT OF S-2 WITH X-1R



- NOTE: Without agitation Sample S-2 appears to remain unchanged

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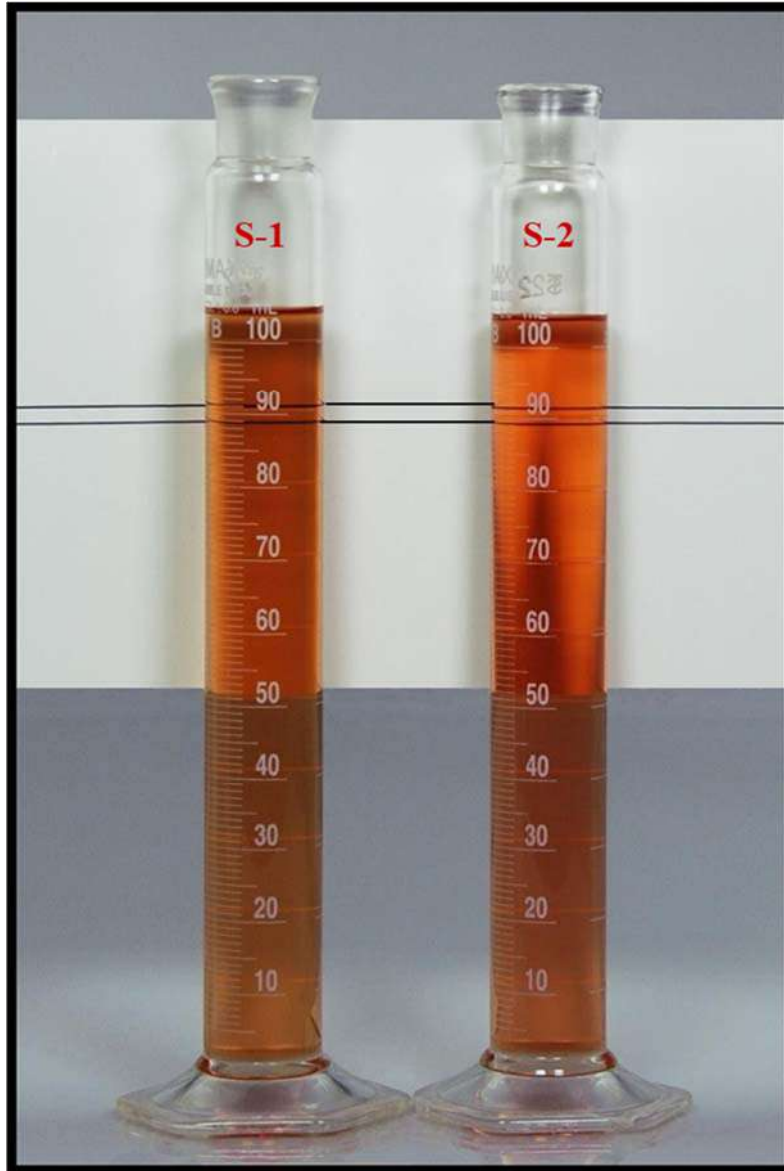
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WATER STABILIZER FOR ETHANOL/GASOLINE BLENDS

IMMEDIATELY AFTER SHAKING S-2



- NOTE: With agitation Sample S-2 immediately becomes clear and homogeneous
- NOTE: The parallel background lines are clear through both S-1, the pre-treated sample and S-2, the post-treated sample

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WATER STABILIZER FOR ETHANOL/GASOLINE BLENDS

SAMPLE S-1 & S-2 AFTER 24-HOURS



- NOTE: After 24-hours of storage under normal conditions there are no apparent changes to either Sample S-1 or S-2

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