

# SARFORD'S NEWS

Volume 11, Issue 1  
October 1, 2015

## SARTEC OFFERS A REVOLUTIONARY WAY TO MONITOR FLAKING COSTS—SARTIME!

SarTec Corporation researchers have developed a revolutionary new system for monitoring your flaking system called **SarTime**! The new patented system allows for the accurate and automatic measurement of the residence time of grain in each flaker and generates a report so you are in control of your flaking costs. The residence time of the grain within the flaker chest is directly related to the cost of production and quality of the flakes, which affects the starch availability and ultimately the performance of cattle. For the first time ever the **SarTime** system puts you in the driver seat for controlling the costs associated with flaking grain and getting the most out of your grain processing operation.

The new **SarTime** system is easily added to any flaking mill and monitors each flaker individually. Its state of the art computer automatically records all key flaking parameters such as the steam chest temperature, power usage, peg feeder speed and most importantly the grain residence time which affects the overall cost of

production of processed grain.

The **SarTime** computer is a state of the art PLC system custom programmed for each feedlot to maximize monitoring of the flaking operation and automatically alert the operator of any issues with the system. Daily data is stored within the computer and on a weekly basis a report is generated and automatically emailed to authorized personnel.

The **SarTime** system is user friendly and you can even get real-time data right from your smart phone or computer to make sure you always know the status of your flaking operation at all times.

*SarTec has recently been awarded a patent for SarTime* and we are the only company offering this revolutionary system in the market today. (US 8,424,451: Automatically Controlled Steam Flaking Systems and Methods).

So make sure you are controlling the cost factors related to steam flaking of grain at your feedlot today and call your local SarTec representative about adding **SarTime** to your feedlot. Or call our toll free number at 1-800-472-7832 (1-800-4-SARTEC) and learn more about how **SarTime can save time and money.**

# SarTec®

## SarTime AutoRetention System - V1.01

PLC #1 - V1.01

PLC #2 - V1.01



## BIODIESEL BY THE NUMBERS FROM EVER CAT FUELS

By Kelly Johnson

Harvest season is in full swing across America's heartland but something is wrong with this picture.

The weather is perfect, the tractor looks to be in good condition – the only indication of the issue at hand is the diesel particulate matter (DPM) coming from the tractor's exhaust. The exhaust is costing the farmer money; from lost crop production and from higher fuel costs.

Exhaust gases created by the combustion of petroleum fuels can cause both immediate and long term harm to crops and livestock. One of the biggest short term benefits of using biodiesel is the virtual elimination of sulfur compounds. Sulfur dioxide can cause direct damage to crop leaves and, once in the atmosphere, is one of the major components of acid rain.

Not only does the use of biodiesel have immediate benefits for local air and water quality; the use of biodiesel has direct economic benefits for both farmers and feed lot operators. Research conducted by Informa Economics, shows that biodiesel adds 74 cents to the per-bushel price of soybeans. Feed lot owners also benefit from the increased demand for soybean oil and the reduced cost of soybean meal feed by an estimated \$25 per ton.

One family farm and feedlot in Northeast Nebraska is already saving money by using biodiesel. Weborg Feeding Co. in Pender, Nebraska is

putting biodiesel to good use. Weborg Feeding Company currently uses B80 (80% biodiesel) at their operation. The ongoing joke around this farm in Cuming County is that all these red tractors are going green in a whole new way.

Owner Brian Weborg said, "Biodiesel has worked great for us. I may have been a little skeptical at first but now it's a change to us that was easy and makes sense on our bottom line." The initial skepticism at Weborg Feeding Company came from lack of information and knowledge about biodiesel itself.

When switching to high biodiesel blends farmers and feed lot owners are often concerned about the efficiency and effect of the fuel on their engines.

Weborg had these concerns too, so he decided to put biodiesel to the test. The test they used was simple: they tested a B80 blend of biodiesel against regular #2 ULSD in their heavy equipment. They used the same engine, same irrigation well and ran them both for over 20 hours.

Weborg explains the results, "We ran a test and it isn't like it is using more gallons per hour than regular diesel." biodiesel was behind #2



ULSD at the most 0.15 gallons an hour.

Rather than engine issues, Weborg actually noticed improvement in engine performance. The lubricity problems with #2 ULSD often require costly additives whereas biodiesel blends have been shown to provide significant increases in fuel lubricity. Brian Weborg observed the lubricity benefit of biodiesel first hand: "[You can't get] the lubricity of it (biodiesel) with ultra-low sulfur anymore, I think it is better for the injection pump and injectors compared to regular diesel. That and I can get it (biodiesel) bought cheaper." With continued application of biodiesel in the heavy equipment at the Weborg's operation, Brian Weborg concerns regarding biodiesel have subsided, "I haven't seen an increase in changing filters, going from regular diesel to biodiesel." said Weborg.

As the Weborg's continue to harvest they will be embracing the change of using biodiesel in their equipment. By buying biodiesel in bulk directly from Ever Cat Fuels they are getting all the emissions and engine benefits of biodiesel while saving money. Ever Cat's efficient biodiesel production process and sales model allow Ever Cat to offer pricing equal to or less than that of #2 ULSD petroleum diesel. Call Ever Cat Fuels today - together we can save green and breathe easier. *For more information on how you can buy biodiesel directly from Ever Cat Fuels please call 800-472-7832.*

## DIGESTIVE SEASON IS UPON US...

Fall is upon us now and with that time of year comes the seasonal flare-ups of digestives in our fed cattle. We would like to remind you now, before the fall digestives get into full swing, that we at SarTec have several products that are designed to help alleviate some of the digestive issues you might be experiencing now or in the near future.

SarTemp SG, our tried and true grain conditioning product, can be dosed to help against those diges-

tive issues and it does a great job of conditioning the grain and providing Sulfur Guard at the same time.

SarStart DSC SG and SarStart LSC SG are dry and liquid concentrated yucca products designed to be added to your supplements or ran through a micro-additive machine. Micro Beef and Animal Health International are distributors of these products, and offer the flexibility of treating digestives that is often needed.

With the price of cattle being what it is, more and more yards are looking at one of these SarTec products to be fed to cattle to help head off those untimely digestive costs.

For questions on whether one of these products would be helpful in your program please contact SarTec Corporation at 800-472-7832. We will most likely be visiting you in the near future to discuss these products and answer any questions you have.

**SARTEC CORPORATION**

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*Specializing in Saponin Technologies*

Please visit us at  
[www.sartec.com](http://www.sartec.com)



**SarTec**<sup>®</sup> is a family owned and operated corporation located in Anoka, MN. Established in 1983, our mission has been to provide high quality, natural products and service to the agricultural industry. From our equipment to our products, we have a number of ways to help you best reach your goals. Individually we can make a difference; together we can perform miracles.

**SarTec**<sup>®</sup>

## EMPLOYEE SPOTLIGHT - SANDRA HINZ

Sandra Hinz joined SarTec in July of 2013 as a research scientist. Sandra was born and raised in Stockholm, Sweden and moved to the United States to attend Augsburg College in 2009. At Augsburg, Sandra received an academic scholarship, maintained a 4.0 GPA and impressively completed a double major (biology and chemistry), while simultaneously playing hockey four four years.

Sandra started at SarTec as a research scientist in our analytical laboratory, focusing on product development and quality control. She was adept at her job and was quickly promoted



Sandra's nickname on the ice at Augsburg was "Swede"

into a management role. She currently manages our service force as well as handling various HR and IT responsibilities. In addition, some of her time is spent on procuring and administrating research grants.

Sandra has recently started pursuing a Master's degree in biology at Saint Cloud State University (Saint Cloud, MN) and hopes to complete that degree within two years. After that she plans to apply to medical school with the hopes of becoming a Medical Doctor specializing in oncology and possibly performing cancer research. Sandra enjoys traveling, kayaking, hiking, watching movies and being outdoors with her boyfriend John.

**Have You Heard About....**

# **SarStart<sup>®</sup> for Dogs?**

**SarStart<sup>®</sup> for Dogs** contains a special formulation of 11 essential vitamins and natural plant saponins (GRAS). Saponins have been shown to boost an animal's immune system, destroy protozoa and help alleviate arthritic symptoms.



**SarStart<sup>®</sup> for Dogs** is a liquid product in an easy to use applicator. Simply squeeze the bottle to fill the dosing reservoir to the appropriate level (based on your dog's weight) and apply directly to the dog's feed.

Here's what some dog owners had to say after using **SarStart<sup>®</sup> for Dogs**:

*"After giving SarStart<sup>®</sup> for Dogs to my older dog, he has more energy, more like when he was a puppy."*

*"Our lab is getting old. He was unable to jump into the back of the car when we were traveling. After giving him SarStart<sup>®</sup> for Dogs, he jumps into the back of the car without any trouble. SarStart<sup>®</sup> for Dogs has changed his life."*

*"My two young hunting dogs were lost for 8 days when they went to play in a nearby corn field. It was a hot, humid summer and when I finally found them, they were in terrible condition...full of parasites and ticks, and severely dehydrated. After several trips to the veterinarian, being wormed twice and dipped, they still had loose bowels, a bad hair coat and no appetite. I began to give them SarStart<sup>®</sup> for Dogs and within a few days I could see an improvement. Within three weeks, my dogs had normal stools, a shiny hair coat and better appetites. They looked like they were in better condition than before I lost them! I've fed them SarStart<sup>®</sup> for Dogs ever since."*



800-472-7832 [www.sartec.com](http://www.sartec.com)

All sizes of dogs love SarStart<sup>®</sup> for Dogs.