

BIOBLEND™

High Performance BioBased Lubricants

The latest news from BioBlend

December 2014

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Dear Friends,

It has been an exciting year for BioBlend! We have had the opportunity to develop new partnerships, such as the one detailed below with Bandon Dunes Golf Resort, and begin work on some exciting new products that we will be rolling out in 2015. We have also been able to expand our reach even further into the marine industry by helping our customers understand the scope and meet the requirements of the new EPA VGP and sVGP regulations. Read on for more information about the new sVGP and what's going on in the world of biodegradable lubricants.

BioBlend Partners with Bandon Dunes Golf Resort



Pictured along the 4th hole at Pacific Dunes: Ken Nice, Director of Agronomy, Bandon Dunes; Tim Parker, President of Northwest Green Products; Kenneth Hindman, Director of Maintenance Bandon Dunes; Bill Smith, Vice President of BioBlend.

BioBlend recently announced an exciting new partnership with Bandon Dunes Golf Resort located in Bandon, OR. Tim Parker, President of

the latest happenings at BioBlend.

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Northwest Green Products, worked closely with Bandon Dunes over the last year to evaluate a number of industrial applications throughout the resort and then implemented a lubrication strategy to fit their specific needs.

"BioBlend provided us with a great package of products specifically for our needs," said Ken Nice, Director of Agronomy, Bandon Dunes. "This is a big step for us in maintaining a world-class resort."

To learn more about Bandon Dunes and read the entire press release, please visit:

[Bandon Dunes Golf Resort & BioBlend Press Release](#)

The U.S. EPA Continues to Promote the Use of High Performing Biodegradable Lubricants in U.S. Waters



The Environmental Protection Agency continues to demonstrate the importance and value of using biodegradable lubricants by expanding the Vessel General Permit mandate that went into effect December 2013. Vessels less than 79 feet in length will be subject to the new Small Vessel General Permit (sVGP) effective December 19, 2014.

The new sVGP mandate aims to reduce the environmental impact from non-military, non-recreational vessels and requires the use of Environmentally Acceptable Lubricants (EALs), except when technically infeasible, in all equipment and machinery where a discharge of oil to water is likely to occur.

According to the EPA website, an estimated 115,000 to 138,000 vessels are covered under the sVGP, and approximately one-half of the affected vessels are commercial fishing vessels. The remaining half includes passenger vessels, utility vessels, and freight barges.

BioBlend offers a full line of BIODEGRADABLE, MINIMALLY-TOXIC, and NON-BIOACCUMULATIVE Environmentally Acceptable Lubricants to help operators comply with the VGP and sVGP mandates. The use of BioBlend lubricants allows for a worry free transition to EALs due to their demonstrated high performance capabilities, their compatibility

with existing lubes and seal technologies, and the dedicated network of lubrication professionals available to answer any questions that may arise regarding changeover procedures and requirements.

Biodegradable Lubricants Growth and Product Advantages

The growth of the biodegradable lubricants market is a hot topic these days, with reputable researchers highlighting a projected annual sales growth of 5.5% for bio-lubes, the anticipation that the biodegradable lubricants market will be equal to that of synthetics by 2020, and a decline in petroleum based lubricant sales because of gains in natural biobased ester sales.

This increase in market share is due, in part, to continued advances in biobased technologies, years of field proven performance capabilities, and an increased demand in environmental awareness and compliance. There are also a number of positive benefits to choosing a biodegradable lubricant over a conventional petroleum based lubricant, which is also a contributing factor in the growth of the biodegradable lubes market. A few of these benefits are highlighted below:

Naturally High Viscosity Index (VI) - Viscosity Index is the resistance of an oil to change viscosity when subjected to a change in temperature - the higher the VI of an oil, the better. While conventional petroleum products typically have a VI of around 100, BioBlend products have a VI of around 200. A lubricant with roughly TWICE the VI of a petroleum product has a huge advantage in extreme temperature environments, which is certainly relevant as the consistently cold temperatures of winter approach.

Powerful Metal Polarity - Canola, a natural ester, serves as a basestock for many BioBlend products. A major benefit of the use of natural esters is higher metal polarity when compared to conventional petroleum based products. The result is better equipment lubrication because the oil does a better job adhering to and staying in place on metal surfaces. A user will also see enhanced corrosion protection due to the increased metal wetting capabilities of a natural ester.

Green and Sustainable Technologies - Some of the increased interest in biodegradable lubricants is attributed to various market drivers encouraging companies to become more concerned with the environmental impact of their operations. BioBlend products are a viable option for companies looking to expand their sustainability goals.

Be sure your organization is poised for changes in the lubricants market! Feel free to contact us or visit our website at

www.bioblend.com for more information on the advantages of biodegradable lubricants, case studies, product information and more.

The BioBlend team is hoping you had a great 2014! As always, feel free to contact us and let us know how we can help you continue to prosper in 2015!

Sincerely,

A handwritten signature in black ink that reads "Renee". The signature is fluid and cursive, with the first letter being a large capital 'R'.

Renee Drosche
BioBlend Renewable Resources, LLC