



A World of Lubrication Understanding

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Oxidation Research Presentation at STLE Meeting!



Title: **Studies of Variation in the Oxidation Inhibition of Base Oils – Continuation of an Isothermal Study of Innate and Additive-Inhibited Oxidation of Base Oils.**

Date and Location: **Thursday, May 21, 2015 at 8:30 AM; Trinity 7**

Presenter: **Marta Manning, Ph.D.**, Technical Development Chemist, Savant Labs

Oxidation stability is well-known as an important property of almost all lubricants. Greater resistance to oxidation decreases the lubricant's tendency to form undesirable corrosive byproducts. Antioxidants are added to base stocks to influence their oxidation stability and operating life. Understanding the influence of antioxidants on the useful life of a lubricant is helpful in both the choice of base oils and antioxidants. Three antioxidants, each at

various concentrations in four base oils of increasingly natural oxidation resistance were selected for this work. A versatile bench test instrument was selected for measuring oxidation stability. The blends were oxidized in the presence of a catalyst in a special isothermal, high-pressure, high temperature reactor from which samples of the test oil or blend could be drawn at will for interim analysis during test. Interesting and unexpected differences were observed in the response of both the antioxidants and the base oils.

Savant Labs is available to collaborate on oxidation studies for your lubricant formulations. Please contact [Savant Labs](#).

Savant Labs Team Member Spotlight



Steve Schultz is the Savant Labs Operations Manager. Steve joined Savant Labs in April, 2015. Prior to his current role, Steve worked at Clorox Healthcare and Caltech Industries in New Product Development, improving Quality Systems, and leading product endorsements with OEMs. He previously worked at Dow Corning providing Technical Services to customers and distributors for specialty performance chemicals. Steve has served as a volunteer and youth mentor with Royal Family Kids Camp for over 15 years. Steve is excited to lead a team with technical breadth and customer focus!

Upcoming Events

STLE 70th Annual Meeting: Omni Hotel, May 17-21, 2015, Dallas, TX; Booth #324

NLGI 82nd Annual Meeting: Coeur d'Alene Resort, June 6-9, 2015, Coeur d'Alene, ID

ASTM D02 Meeting: Marriott Harbor Beach Resort; June 21-25, Ft. Lauderdale, FL

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