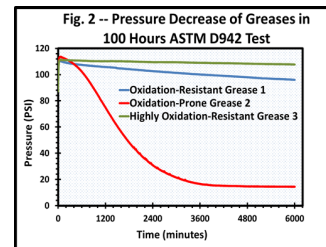



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Grease Oxidation Measurement by an Advanced Technique

**A Savant Labs Technical Brief by Samina Azad, Ph.D.
Technical Development Manager, Savant Labs**

Oxidation resistance is one of the most desirable properties of grease, particularly because of the stresses imposed by continuous operation often at high temperature. For many years the batch-to-batch oxidation resistance of grease has routinely been measured using ASTM Test Method D942. Recently, this method has been implemented on the Tannas *Quantum*[®] instrument, which is an isothermal reactor eliminating the care and concern of a liquid bath. In conjunction with this improvement of D942, a further advancement in grease oxidation measurement has been developed by combining the ASTM D942 Test Method with infrared (IR) analysis. This technique considerably amplifies the very limited information provided by the D942 test alone. With such information, ASTM Test Method D942 can be used to develop correlation with greases in service and permit selection of greases and additive package for specific applications. [Read the full Technical Brief](#)



Tannas *Quantum*[®] modified for D942 Grease Oxidation Test and example of data

New Savant Lab Testing Capability Now Available

Savant Labs provides you brief technical summaries and papers on topics relevant to lubricants formulation and testing. The latest of these Technical Briefs highlights an Advanced Technique developed by Savant Labs to measure grease oxidation. With the new ability to quickly convert the *Quantum*[®] instrument used in ASTM D2272 to D942 and back again, Savant Labs is now equipped to perform the standard ASTM D942 Test Method. In addition, as the developer of the Advanced Technique, Savant Labs has the expertise to test and compare greases and their formulary modifications. Thus, customized projects and testing protocols can be developed easily to advance understanding of oxidation resistant of future grease formulations. [Contact us for details.](#)

Upcoming Events:

NLGI 81st Annual Meeting
June 14-17, 2014
Palm Beach Gardens, FL

ASTM International D02 Meeting
June 22-26, 2014
Indianapolis, IN

Savant Labs Team Member Spotlight:



Greg Miller

Greg Miller is the Vice President Operations for *The Savant Group* of companies, and in the short-term will serve as the Operations Manager for Savant Labs. Greg has been with *The Savant Group* for twenty-five years. His professional degrees in electronics and business have bolstered his career ascending to VP Operations. Greg has been a member of ASTM for 21 years serving as an officer of nine different groups between Subcommittee 07, 09 and CS96. He also serves as an officer on multiple groups with the Coordinating European Council (CEC), Energy Institute (EI) and Society of Automotive Engineers (SAE), authoring half a dozen technical publications and earning awards for excellence in his service.



Jon Evans

Jonathan (Jon) Evans Ph.D. is the Vice President, Technical Development for *The Savant Group*. Jon is excited about the new technology space and the opportunity to help The Savant Group of companies bring new innovative products to the industry. Jon joined *The Savant Group* in February, 2013 after 25+ years at The Dow Chemical Company with experience in process R&D, manufacturing, new business development, commercialization, employee development & performance management and the last three years in project & portfolio development. Along with Ted Selby, Jon manages the technical programs for *The Savant Group* of companies. Jon's experience and expertise in developing people and new technical solutions enables *The Savant Group* to better serve the industry.

[More Details](#)

