Savant Labs
A World of Lubrication Understanding
ISO 9001 Certified
On the Horizon.....
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Savant Labs Upgrades Air Release Testing Capability

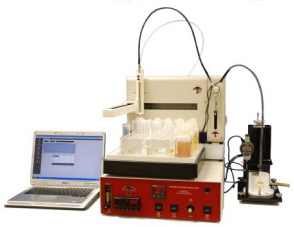
Savant Labs has recently upgraded its capability to run ASTM D3427 Air Release Properties of Oils. The D3427 method is an important test for determining the ability of a turbine, gear, or hydraulic oil to separate entrained air. Agitation of lubricating oil with air can produce a dispersion of finely divided air bubbles in the oil. If a mixture of air and oil circulates through a lubricating system the result could be poor hydraulic system performance or potentially a mechanical failure. System designers use D3427 results to ensure that reservoirs are adequately sized. Oil formulators use Air Release test results to ensure their formulations perform to industry and OEM specifications for a given application. Savant Labs is equipped with an upgraded Air Release unit and automation system to reduce total turnaround time and ensure precise results. Contact us to schedule D3427 Testing.

Upcoming Events:

ASTM International
D02 Meeting
December 7-11, 2014
San Diego, CA

HTHS and Beyond…. Multiple Temperatures and Shear Rates

Need High Temperature, High Shear (HTHS) viscosity information at more than one temperature or shear rate? HTHS viscosity has been a vital automotive lubricant test since the early 1980's when the Tapered Bearing Simulator (TBS) Viscometer was first born in Savant Laboratory. It has long since been a critical test in the SAE J300 Engine Oil Viscosity Classification system and used in world-wide specifications. With the increasing quality of engine oils for today's engines and specifically the advent of lower viscosity engine oils, formulators and OEMs need to understand an oil's viscosity through a range of conditions. Savant Labs offers their expertise and experience to configure the TBS Viscometer to allow temperature and shear rate adjustments from 40°C to over 150°C and shear rates from below 10^5 s^{-1} to over $7x10^6$ s^{-1}. Understand your oil formulation's viscosity behavior, contact us for details. TBS Technical Papers...



The Tapered Bearing Simulator In Action!

ASTM D5800 Procedure C Selby-Noack Oil Volatility Test

Noack volatility, a bench test originally developed in Europe in 1930s, measures volatility of an oil by weight loss at high temperature. The test is used routinely to determine engine oil's ability to provide an adequate level of lubrication. In 1993, Savant Labs designed what would later become the Tannas *Selby-Noack*® instrument (ASTM D5800 Procedure C) to eliminate the use of hazardous Woods Metal. The design of the instrument also provides the added ability to collect the volatilized material generated during the D5800 test for calculation of the Phophorus Emission Index (PEI). Procedure C of D5800, the Selby-Noack Method, correlates well with the original Woods-Metal Method without the use of a correction factor. Savant Labs has the expertise to test and compare oils and effect of formulary modifications on volatility and phosphorus emissions.

Canika Owen-Robinson

More Details

Savant Labs Team Member Spotlight:

Canika Owen Robinson is the Technical Advisor and Instrumentation Supervisor. Canika joined Savant Labs in December, 2005. Prior to her current role, Canika served as Senior Chemist for Savant Labs. She previously worked for seven years at the Dow Chemical Company in Automotive Manufacturing R&D as a Laboratory Technologist. Canika serves as a mentor for many youth in the area. She promotes STEM (Science, Technology, Engineering and Math) by encouraging students to get involved in science as well as assisting students with science projects. Canika is passionate about matching technical capabilities to customer needs.

Dan Castanier joined Savant Labs in March as a Customer Support Technician. This role provides the opportunity to touch the many phases of the testing process from customer inquiry, sample check-in, and results reporting. Dan comes to Savant Labs after extensive experience at Mid-Michigan Medical Center where he managed customer services within several clinical areas such as Magnetic Resonance Imaging and Diagnostic X-Ray for 17 years. Dan enjoys working with our clients to ensure accurate data reporting and customer