



A World of Lubrication Understanding

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General Motors Publishes dexos1™:2015 Specification



In June 2015, General Motors published its GMW17332 Material Specification, otherwise known as the dexos1™:2015 specification. The Technical Team at Savant Labs has thoroughly reviewed the document with an eye to any changes in bench testing. A high temperature high shear viscosity test at 100°C has been added as a reporting requirement. Another change includes reporting the kinematic viscosity at 100°C and the viscosity index of the base oil mixture used to make the formulated engine oil. An ASTM D5133 Gelation Index value of ≤ 12 has been added. While the ASTM D5800 Noack Volatility limit remains $\leq 13.0\%$, applicants are now required to report the average of three consecutive runs at the same laboratory. Savant Labs offers all the bench tests and can help you validate that your formulations will meet the dexos1™:2015 requirements. [Contact Savant Labs](#) to schedule a testing project.

Savant to Present Oxidation Research at 2015 STLE Tribology Frontiers Conference



Jon Evans, Vice President Technical Development, Savant Group, will be presenting a paper at the 2nd Annual STLE Tribology Frontiers Conference in Denver on October 26th at 10:40 am in room Mt. Elbert A. The presentation is titled, "Oxidation Effects on Physical and Chemical Properties of a Base Oil Both Untreated and Oxidation-Inhibited". This paper will explore the physical and chemical property changes associated with progressive oxidation of a particular base stock and antioxidant. The oil blend was exposed to ASTM Test Method D2272 (Rotating Pressure Vessel Oxidation Test [RPVOT]) oxidation conditions utilizing a versatile isothermal, high pressure, high temperature bench test instrument equipped with a specialized sampling mechanism. Oil samples were taken at select intervals and analyzed for changes in physical and chemical behavior as the degree of oxidation increased. The results of this study could have useful application for in-service lubricant condition monitoring or as a formulation quality check. [For more information, please contact Savant Labs.](#)

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