



CONEXPO 2014:

With case studies, data and “Simulator”, DYNAVIS® technology reveals untapped fuel savings in hydraulic fluid

LAS VEGAS, NV USA – Change–out the hydraulic fluid in your excavator and save \$8,000 a year. That was the only incentive needed to get CEO Rainer Schrode of southern Germany’s Schrode GmbH civil engineering and road–building company to test hydraulic fluid formulated with DYNAVIS® technology.

Schrode’s story is one of three case studies compiled and featured in the display of DYNAVIS® technology at this year’s CONEXPO/CONAGG/IFPE exposition in Las Vegas. The display, at stand 7019 in the Platinum Lot at the Las Vegas Convention Center, is the hydraulic fluid technology’s inaugural trade show appearance in North America, after previous appearances at major hydraulic equipment shows in Europe and Asia.

DYNAVIS® technology is an innovative approach to achieving higher levels of fuel efficiency and productivity developed by scientists at Evonik Industries. “DYNAVIS® technology focuses on formulating hydraulic fluids that meet higher performance standards,” explains DYNAVIS® After Market Support Manager Rolf Fianke. “In laboratory tests and field trials, hydraulic fluids formulated to DYNAVIS® technology performance standards have achieved fuel savings averaging around five to ten percent versus a conventional monograde ISO 46 fluid, with some field tests having recorded gains of as high as 30 percent,” he adds.

Fleet owners of hydraulic equipment like Rainer Schrode are discovering until–now hidden profit simply by changing out their hydraulic fluid to one formulated to DYNAVIS® performance standards. Schrode’s test of the DYNAVIS®–formulated fluid more than proved itself in terms of fuel efficiency. And with it came a noticeable improvement in performance. Schrode’s excavator operator Dieter Pukowski explains.

“The excavator didn’t lose power when I activated multiple functions. I could feel it. With the new fluid, there was no power loss.”

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For CONEXPO, the DYNAVIS® display includes a specially–designed “Simulator” which gives visitors to the stand a strong impression of the difference DYNAVIS® technology makes. “When visitors to the stand jump on the “Simulator” they feel the power of a hydraulic fluid formulated with DYNAVIS® technology,” notes Rolf Fianke.

All three DYNAVIS® technology case studies are featured in the CONEXPO stand. In addition to the Schrode story, there are videos and graphic presentations of similar field tests at Screen–Renting BVBA, a construction debris recycling company based in Belgium, and at Ghizzoni S.p.A., an Italy–based company specializing in pipeline excavation.

The Belgian case study, with Screen–Renting BVBA, provided a powerful example of how DYNAVIS® hydraulic fluid technology contributed to a reduction of hydraulic fluid operating temperature in an extreme work environment. Not only did DYNAVIS® technology contribute an 11 percent decrease in fuel consumption, it also provided a noticeable improvement in the hydraulic–actuated movements of the excavator and eliminated the need for “heat breaks”.

For Ghizzoni, there was a similar reduction in fuel consumption in the test excavator – 9.89 percent. And given the size and standardization of the Ghizzoni fleet of excavators, all focused on a similar task, a simple extrapolation suggested a remarkable potential savings of 10,000 EUR per month.

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The DYNAVIS® technology display will welcome visitors daily from 9 AM to 5 PM Tuesday through Friday, March 4 through 7, and from 9AM to 3PM on Saturday, March 8 at stand 7019 in the Platinum Lot at the Convention Center. For more information about DYNAVIS® technology, visit dynavis.com.

About Evonik’s Oil Additives Business Line

Evonik’s oil additives business line has taken a leadership role in developing lubricant additive technology designed to improve fuel efficiency and productivity. In addition to the impressive fuel savings and productivity gains achieved with DYNAVIS® technology for hydraulic fluids, energy saving results have also been demonstrated with VISCOPLEX® Viscosity Index Improvers (VIIs) in engine oils, driveline



fluids and gear oils. Evonik's VISCOBASE® technology offers an ideal balance between a very shear-stable VII and a synthetic base fluid, supporting the high-performance lubrication needs of applications such as Wind Turbine Gear Oil (WTGO). In all of its many applications, Evonik strives for resource efficiency, reducing operating costs as well as CO₂ emissions. For more information about Evonik's oil additives business line, visit evonik.com/oil-additives.

Company information

Evonik Industries, the creative international industrial group, is one of the world leaders in specialty chemicals. Its activities focus on the key megatrends resource efficiency, health, nutrition and globalization. Evonik benefits specifically from its innovative strength and integrated technology platforms. Evonik is active in over 100 countries around the world. In fiscal 2012 more than 33,000 employees generated sales of around €13.6 billion and an operating profit (adjusted EBITDA) of about €2.6 billion. For more information about Evonik Industries, visit Evonik.com.

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