



Reach out to a new level of efficiency with DYNAVIS® technology formulated hydraulic fluid at Excon India

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- DYNAVIS® technology from Evonik for hydraulic oil marketers launched in the Indian market this year
- Excon 2015 will be held at Bengaluru, India from November 25-29, Evonik booth No: 54 in Hall 1
- Indian Oil Corporation Limited (IOCL) - New DYNAVIS® licensee

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With rapid economic growth, India has vaulted to the top of the global growth leagues. Infrastructure investments are the main driver among the major economic activities, which require high energy input. For this reason, companies are developing new technologies to achieve lower energy consumption and achieving real savings. At this year's Excon, Evonik Industries will present its DYNAVIS® technology and demonstrate how it can bring a new level of efficiency to hydraulic fluids (in Hall 1, Stand #54).

Reach out to a new level of efficiency

DYNAVIS® technology from Evonik optimizes the viscosity of hydraulic fluids. Here's how: like most oils, hydraulic oils lose viscosity at high temperatures. In this state, the hydraulic fluid transfers less hydraulic energy through the hydraulic fluid system, because it has become hot and thin-bodied; "internal leakage" within the system increases and efficiency drops in the desired direction of flow.

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In contrast, using a fluid formulated with DYNAVIS® technology results in less internal leakage and the hydraulic fluid system retains its efficiency, even at high temperatures. At the other end of the temperature scale, in extreme cold, oils become increasingly viscous and more and more difficult to pump. As a result, the hydraulic system consumes more energy, primarily through its pump drive. Here too, fluids formulated with DYNAVIS® technology reduce the pump's energy consumption.

Proven savings in a variety of markets

One of the case studies compiled and featured in the display of DYNAVIS® technology at Excon features Schrode Tief- und Strassenbau of Southern Germany. The company is active in civil engineering, road building, garden and



landscaping, water engineering and in building natural stone walls. Schrode CEO and fleet owner Rainer Schrode's discovery of until-now hidden profit simply by changing out their hydraulic fluid to one formulated to DYNAVIS® performance standards is typical. In additional case studies, downloadable from dynavis.com, owners of hydraulic equipment share their experience with a variety of mobile construction applications like excavating, sieving & breaking, rock-milling, recycling and stationary hydraulics like injection molding.

"Last year, we brought DYNAVIS® technology to the China market. With this hydraulic fluid formulated to DYNAVIS® technology standards, Jinhua Junda Excavator Fittings, a machinery corporation, gained 7% fuel savings in normal operating conditions", said Carlos Vernet, Marketing Manager, DYNAVIS® Asia Pacific. "In laboratory tests and field validations, 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. Under extreme conditions, gains of as high as 30 percent were recorded," he added.

Global partners enable flexible response to customers

Effective this month, Indian Oil Corporation Limited (IOCL) is offering its customers hydraulic fluids formulated with DYNAVIS® technology. "We are confident in introducing DYNAVIS® technology to our local customers," says Mr. K.L. Murthy, Executive Director (Lubes) for IOCL. "With the robust marketing tools of DYNAVIS® technology, we can demonstrate easily to the hydraulic equipment owners and operators (e.g. excavators, loaders, etc.) the proven results of higher levels of fuel efficiency and productivity."

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DYNAVIS® technology for optimizing the viscosity of hydraulic fluids is currently available from seven DYNAVIS® technology licensees globally. "The global network allows us to quickly response to our customers," explains Carlos Vernet. "You'll find the DYNAVIS® insignia clearly marked on their product containers."

For more information about DYNAVIS® technology, visit dynavis.com.



About Evonik's Oil Additives business line

As a leading provider of oil additives, Evonik develops technologies to improve fuel and energy efficiency, as well as productivity, with its DRIVON™ and NUFLUX™ technologies in engine oils, driveline fluids and gear oils. Industrial and off-highway equipment achieve fuel and energy savings with DYNAVIS™ technology for hydraulic fluids. Other specialty products from the Oil Additives business include high-performance additives for fuels and refinery products.

About Evonik's Resource Efficiency segment

The Resource Efficiency brings together Evonik's activities in specialty chemicals for industrial applications. The Resource Efficiency segment supplies high performance materials for environmentally friendly as well as energy-efficient systems to the automotive, paints & coatings, adhesives, construction, and many other industries. This segment employed about 7,800 employees, and generated sales of around €4 billion in 2014.

About Evonik

Evonik, the creative industrial group from Germany, is one of the world leaders in specialty chemicals, operating in the Nutrition & Care, Resource Efficiency and Performance Materials segments. The company benefits from its innovative prowess and integrated technology platforms. In 2014 more than 33,000 employees generated sales of around €12.9 billion and an operating profit (adjusted EBITDA) of about €1.9 billion.

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DYNAVIS®, DRIVON™ and NUFLUX™ are brands of Evonik Industries.

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