

Imagine if the heavy-duty tools used to cut steel could last longer.

PURIFY | PROTECT | ENHANCE

Customer success story.

Customer: See Lube Technologies Private Limited

Product: AltaLUB® 5300

Application: Metalworking fluid formulation

Ingevity: Purify | Protect | Enhance

Ingevity provides specialty chemicals, high-performance carbon materials and engineered polymers that purify, protect, and enhance the world around us. Through a team of talented and experienced people, Ingevity develops, manufactures, and brings to market products and processes that help customers solve complex problems. These products are used in a variety of demanding applications, including asphalt paving, oil exploration and production, agrochemicals, adhesives, lubricants, publication inks, coatings, elastomers, bioplastics and automotive components that reduce gasoline vapor emissions. Headquartered in North Charleston, South Carolina, Ingevity operates from 25 locations around the world and employs approximately 1,750 people. The company is traded on the New York Stock Exchange (NYSE: NGVT). For more information visit www.ingevity.com.

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AltaLUB® 5300 is a bio-based lubricant increasingly used by metalworking fluid formulators. Because it enables formulations to perform more consistently across a tool run, AltaLUB 5300 is a welcome addition to demanding applications like the cutting of carbon steel where tools undergo high stress, and the expense of machine repair and labor are high. This means formulators can provide higher-performing and more cost-effective products for their customers. That's The Ingevity Effect.

Challenge

The manufacturing environments where metal working fluids (MWFs) are made face increasing pressures. Productivity is impacted and costs are incurred each time a formulation is modified, or tools break down from wear and tear. Formulators that can create MWFs to address these challenges and outperform competing products have a distinct advantage. See Lube Technologies Private Limited is an India-based processor of MWFs used to cut carbon steel into automobile gear shafts and axles, and has developed a reputation for helping maximize their customers' operations.

"Our customers require fluids that lubricate and cool as the tool bit cuts so the metal doesn't break or shear," explained Munish Garg, owner and managing director of See Lube. "AltaLUB 5300 lubricates better than other additives, is easy to add to existing formulations, and ensures more consistent precision across tool runs. We create better products with Ingevity."

Solution

Since introducing AltaLUB 5300 into their formulations in 2018, See Lube has seen a 6% increase in tool life on machines using Ingevity's product. This means their customers can not only extend the lives of their tools, but also save valuable labor costs without the need to change or repair machines as often. Garg's team was also able to reduce the need for other emulsifiers in some formulations by using AltaLUB 5300, which enables See Lube to create more cost-effective products for their customers.

Maximizing Value

- AltaLUB 5300 lubricates better than other self-emulsifying esters, which means smoother cuts and less wear and tear on tools.
- AltaLUB 5300 can reduce the need for other additional emulsifiers in a MWF, which enables a more cost-effective formulation.
- AltaLUB 5300 delivers consistent high-quality performance on multiple metal surfaces, meaning it is versatile in various machining environments.