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

Customer success story.

Customer: See Lube Technologies Private Limited
Product: AltaLUB® 5300
Application: Metalworking fluid formulation

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.

Ingevity
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