



Drivetrain Components Manufacturer Reduces Coolant Spending by \$186K with Master Fluid Solutions



A drivetrain components manufacturer, specializing in automotive torque converters, primarily engages in turning applications with steel alloy. It operates three large central coolant systems: one at 30,000 gallons, one at 20,000 gallons, and one at 10,000 gallons. There are 100, 50, and 30 machines on each system, respectively. Its primary customers are large automotive manufacturers across the United States.

THE CHALLENGE

In addition to the age-old cost reduction challenges, the components manufacturer was also faced with sump life and service life issues on its machines. Its incumbent fluid resulted in too much foam, smoke in the air, and residue all over the machines.

The company decided it was time to re-evaluate its entire fluid program to tackle these issues and reduce the amount of metalworking fluid it used. Any fluid it chose would need to be operator-friendly, as well as have a long life in the sump. Changing out the central systems can shut down the entire plant because of the size and number of machines connected to them.

THE SOLUTION

The components manufacturer brought in three different metalworking fluid providers to run 60-day tests on its systems. Master Fluid Solutions' TRIM® SC620 performed well in the test but also offered significant cost savings in the long run.

TRIM® SC620 is a low-foam, semisynthetic coolant that is ideal for high-speed milling and turning applications. It provides a long service life, long sump life, and is low-maintenance, which is critical for central systems like the one running at the components manufacturer's facility.

Master Fluid Solutions also provided tramp oil removal systems, and continuously conducts weekly coolant sampling and laboratory evaluations. Based on the results of these reports, Master Fluid Solutions adjusts the coolant. Master Fluid Solutions includes this maintenance as a value-add to help its customers better manage their coolant usage and spending.

THE RESULTS

After switching over to TRIM® SC620, the components manufacturer saw a massive decrease in coolant spending, going from **\$386,000 to \$200,000** annually, a **48%** savings. Additionally, the company saw a **22%** increase in tool life, an improved surface finish on the final product, and clean machines, without foaming or smoke in the air.

Thanks to Master Fluid Solutions, the components manufacturer has achieved its goal of cost savings and improved both the work environment and the finished product.

THE NUMBERS

- **\$186,000** saved annually
- **48%** reduction in coolant spending
- **22%** increase in tool life

