# Cutrite 3398 Case Study #2

## Reduced scrap and increased insert life

### The Customer's Situation

- The customer is a manufacturer of nodular iron housings and supports used in the automotive industry.
- They were using a semi-synthetic fluid and experiencing a range of problems including misalignment caused by build-up on the tool holders and foam overflowing the tank as well as rust on the machinery, poor coolant life and strong bacterial odors.

### Coolant Control at Work

- Coolant Control recommended our Cutrite 3398 due to its superior biostability, low foaming tendency and high level of cleanliness in machining operations
- An 8 month evaluation was performed comparing the Cutrite 3398 against the current product.
    - Four machining centers making identical parts (two roughing and two finishing operations) were completely cleaned and charged with fresh coolant
    - A roughing and finishing operation for both the Cutrite 3398 and the current semi-synthetic fluid
- Working with the engineering and production departments key performance indicators such as tool life, scrap rates, machine cleanliness, fluid consumption and operator acceptance were tracked for the duration of the trial.

### Successful Data Driven Outcomes

- Improved insert life during the trial by 10%. After switching all the machines to Cutrite 3398 average tool life increased by over 12%
- Misalignment due to dirty tool holders was eliminated. (see pictures below)
- Reduced coolant cost by 18%, due to reduced consumption
- Eliminated all odor complaints
- Eliminated all rust issues on equipment and in-process parts
- The equipment was clean. No greasy deposits or rust
- Tramp oils are now able to be skimmed off the fluid

# Automatic Tool Changer Cabinets for CNC 19 and CNC 20

The ATC units were cleaned prior to the start of the trial.
These images are after 8 months of running the machines 2 shifts for 5 days per week

**CNC 20 running current semi-synthetic**

**CNC 19 running Cutrite 3398**