



# CASE STUDY



## SHILOH INDUSTRIES, INC. AUBURN, IN NO FOAM, NO ODOR, NO SLIMY RESIDUE

### Situation Summary

- Shiloh is currently using Fuchs Ecocool Global 21 semi-synthetic fluid at 10%-12% to drill holes in aluminum automotive structural body components. They are experiencing a wet, slimy film on the fixtures and tools inside the machine causing issues with operator acceptance.
- Test machine is a Matsuura MX-520 5 axis

### Customer Stated Goal

- Eliminate slimy film
- Retain tap life
- Clean running and odor free

### Steps To Solution

Benz recommended the use of **BENZ KOOL 1300** to accomplish the stated customer goals. **BENZ KOOL 1300** is a high performing semi-synthetic with multi-metal capabilities that is designed to provide optimal tool life and surface finish. Product is expected to overcome the tramp oil contamination, runs essentially odor free, and a strong Environmental, Healthy, & Safety profile with no chlorine, DCHA, or formaldehyde release biocide.

### Results

- Tap performance is excellent.
- Slimy film was eliminated.
- Lack of odor leading to high operator acceptance.
- Minimal usage of coolant concentrate needed to maintain a consistent concentration.
- Very good wettability as well as part and machine cleanliness leading to a reduction in fluid carryoff and use. Parts are stacked on cardboard which was relatively dry with **BENZ KOOL 1300** versus soaking wet with previous product. This caused issues with part drying and process cleanliness.

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***“I have really liked everything about this coolant. We have had no foam, no odor, no slimy residue. Best of all you don’t feel like someone has sprayed you with a coating of oil at the end of the day.”***

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*– Manufacturing Engineer, Shiloh Auburn, IN*

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